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3

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5



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F.A.O. Fisheries Biology Branch

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CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—EXPLANATION OF COVERAGE AND ARRANGEMENT

9. ERRATA AND ADDENDA to "EXPLANATION OF COVERAGE AND ARRANGEMENT" (contd.)

1. SCOPE AND COVERAGE OF BIBLIOGRAPHY

Delete from the second sentence of first paragraph:

"generally are included where their contents seem relevant to appraisal and use of resources".

Insert under first paragraph, instead of the deleted sentence "generally are included . . ." the following:

"are only included (a) if they are publications of international organizations (b) where their contents seem relevant to appraisal and use of resources or (c) if they are from a periodical the contents of which are entered completely (see below); in all such cases the references concerned can be recognized by an "X" above their serial number on the right of the page."

Delete from paragraph 4 on page Ex 4 the penultimate sentence:

"They can be . . . on the right of the page."

3. REFERENCES

In the first sentence of second paragraph, replace:

"and has a six-digit number,"

by

"and has a number of seven digits (six digits only for series 57-, 58-, 59-, and 60-),"

3.1 Authors

Names and Abbreviations of Organizations

Insert, in alphabetic order, the following:

EURATOM	..	European Atomic Energy Community Communauté Européenne de l'Énergie Atomique
OEEC/EPA	..	European Productivity Agency Agence Européenne de Productivité

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

PINRO Polar Research and Designing Institute of Marine Fisheries and Oceanography
Полярный Научно-Исследовательский и Проектный Институт Морского Рыбного Хозяйства и Океанографий

Insert under VNIRO the following English name above the original Russian:

All-Union Institute of Marine Fisheries and Oceanography

3.4 *Pagination*

Insert a final paragraph as follows:

“ Reprints sometimes have their own pagination; where it is necessary to make an entry from such a reprint, the colon is followed by the symbol ‘ Repr. ’ and the page numbers as given or ‘ unpag. ’ and the number of pages.”

3.5 *Titles*

Languages, English and native names and symbols

Insert, in alphabetic order, the following:

Basque	Euskara	Eu
Catalan	Catala	Ca
Flemish	Vlamsch	Vl
Quechua	Quechua	Qu
Serbo-Croatian <i>see</i> Croatian		
Sinhalese	Sinhala	Sin

4. ANNOTATIONS AND TREATMENT OF SPECIAL CASES

4.1 *Treatment of publications not seen by compilers*

Code for Abstracting Journals

Insert, in alphabetic order, the following:

Bibliographia Oceanographica	..	..	BO
Bibliography of Scientific Publications of South and South East Asia	..	..	BSA
Index Medicus	..	..	IM
Japan Science Review—Biological Sciences	..	..	JSR-BS
Journal du Conseil (ICES)	..	..	JC
Referativny i Zhurnal	..	..	RZ
Translated Contents List of Russian Journals	..	..	TCL
World Agricultural Economics and Rural Sociology Abstracts	..	..	WAERSA

EXPLANATION OF COVERAGE AND ARRANGEMENT

5. INDEXES

5.3 *Taxonomic*

Taxonomic Classification

Add the following new sentence under paragraph 1, following the second sentence ending with "1, FISHES." :

"[The system is essentially compatible with the 'Biology Code of the Chemical-Biological Coordination Centre', Field, E. *Taxonomy Code*, published in 1960 by the U.S. National Academy of Sciences—National Research Council.]"

5.4 *Subject*

SUBJECTS—TWO DIGIT CODE

Add the following title at the end of the list as two digit code 7.8:

7.8 *FAO*

(FAO publications, publications by FAO staff, documents concerning FAO activities.)

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ERRATA

61-001er to 61-010er

Delete the following entries :

		61-001er
(571540)	(581436)	(581604)
(581884)	(584298)	(584327)
(585398)	(585798)	(59-1980)
(59-2139)	(59-2169)	(59-2817)
(59-2825)	(59-2952)	(59-5506)
(59-6952)	(59-7327)	(59-8175)
(59-8342)	(59-8354)	(59-8767)
(59-8863)	(60-0686)	(60-2358)
(60-2971)	(60-3139)	(60-3147)
(60-3182)	(60-5453)	(60-5520)
(60-5758)	(60-3472)	(60-2965)
(60-2800)	(60-4254)	(60-9080)

Anon. (1959) *should read*

Kinney, E. C., Jr. (1959)

61-002er
(60-4300)

Italy. Istituto Sperimentale Talassografico *should read*

Italy. Istituto Sperimentale Talassografico

61-003er
(60-3720)

S. Afr. Shipp. News Ind. Rev. should read

S. Afr. Shipp. News Fish. Ind. Rev.

61-004er
(60-2299) (60-2300)

Helsingfors. Hydrografise Toimisto *should read*

Helsinki. Hydrografen Toimisto

61-005er
(60-6025)

Conf. on Physical & Chemical Properties should read

Publ. nat. Acad. Sci., Wash., (600) : 185-97

61-006er
(59-7509)

Vestn. leningr. Univ. (fiz.-khim.) 14 (1) : 119-27 should read

Vestn. leningr. Univ. (biol.), 1959 (9) : 119-27

61-007er
(60-4389)

Nordström, S. (1960?)* *should read*

Nordström, S. (1958)

61-008er
(60-9997)

Florida State Board of Conservation should read

Prof. Pap. Ser. Fla Bd Conserv. Mar. Lab., (1) : 104 p.

61-009er
(60-9191)

Vop. Teor. Rybl'ov., mimeo, 42 p. should read

Moskva, VNIRO, Voprosy teorii rybolovstva, 42 p.

61-010er
(60-7325)

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ADDENDA

61-001ad to 61-049ad

Annotation: Makes known this early developmental stage of recently described polydorid. 61-001ad (60-8809)

Annotation: Gives notes on systematics of *Oikopleura dioica* and *O. fusiformis*, *Doliolum (Dolioletta) valdiviae*, *Pyrosoma atlanticum* and *P. spinosum*, and of the salps *Iasis zonaria*, *Thalia democratica*, *Pegaea confederata*, *Salpa fusiformis* f. *aspera* *Ihleia magalhanica*. Discusses occurrences in relation to temperatures and salinities, and the distribution of spp. 61-002ad (60-8810)

Annotation: Describes the shell, radula and operculum of specimens found at Puerto Rico. Issued also as: *Contr. Inst. Mar. Biol. Univ. Puerto Rico*, 1 (8). 61-003ad (59-7454)

Annotation: Detailed description of occurrence of *Petromyzon marinus*. 61-004ad (59-8159)

Annotation: Compares four "hardware" lures—spinners, Dardevle, flatfish—with artificial fly, with respect to hooking mortality and catchability. 61-005ad (59-2500)

Annotation: Semi-popular review of the biology of algae, their distribution in fresh and salt water and their utilization by aquatic animals and men. 61-006ad (59-2985)

Authors: Drilhon, A., J. M. Fine & F. Daoulas (1958) 61-007ad
Ref.: 35 (2) : 142-58. (59-2582)

Annotation: Study of various marine and fresh water spp. by paper and gelose electrophoresis.

Ref.: 33 (4) : 202-67. 61-008ad

Annotation: Study of chemical composition of sediments, precipitation of carbonates, and scum. (59-3688)

Ref.: 35 (3) : 159-234 61-009ad

Annotation: Taxonomic and bathymetric distribution, characteristic associations and faunistic notes (59-2583)

Ref.: 35 (1) : 1-140 61-010ad

Annotation: Results of granulometric study of the coastal sands, coast dynamics and submarine sedimentology of the continental shelf of Provence. (59-2567)

Annotation: Published erratum: Er61-011ad
J. Fish. Res. Bd Can., 16 (6) : 929. (571448)

Annotation: Published erratum: Er61-012ad
J. Fish. Res. Bd Can., 16 (6) : 929. (582507)

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

- Annotation:* Published erratum: Er61-013ad
J. Fish. Res. Bd Can., 16 (6) : 929. (583325)
- Annotation:* Published erratum: Er61-014ad
J. Fish. Res. Bd Can., 16 (6) : 929. (59-2284)
- Ref.*: 707 p. 61-015ad
 (60-5198)
- Annotation:* Ill. genetics of colouration. 61-016ad
 (59-7477)
- Annotation:* Describes experiments with *A. salina* in various Na-salt solutions. 61-017ad
 (59-6173)
- Annotation:* Describes the effects of sea water and stronger salt concentrations on the hemolymph of this sp. 61-018ad
 (60-5427)
- Annotation:* Reports that the gut is responsible for regulation of balance between water and salt. 61-019ad
 (59-5988)
- Annotation:* Describes trematode parasitic on *Lates calcarifer* Bloch. 61-020ad
 (59-7435)
- Annotation:* Available fishes in representative faunal areas are subjected to a series of carefully controlled situations and stimulations as a means of evaluating their sound-making ability. The tables present data on 24 spp. of North Atlantic coastal fishes and 19 spp. of typical subtropical Atlantic spp. 61-021ad
 (60-7270)
- Annotation:* Issued also as: 61-022ad
Trans. R. Soc. Edinb., 63 (1) : 185-220. (59-2657)
- Ref.*: 61 p. 61-023ad
Annotation: A popular view of submarine topography with some notes on submarine geology in general. (59-3024)
- Annotation:* Issued also as: 61-024ad
Contr. Shimonoseki Coll. Fish., (287). (60-7511)
- Annotation:* Issued also as: 61-025ad
Contr. Shimonoseki Coll. Fish., (288). (60-7510)
- Annotation:* Issued also as: 61-026ad
Contr. Shimonoseki Coll. Fish., (289). (60-7509)
- Annotation:* Issued also as: 61-027ad
Contr. Shimonoseki Coll. Fish., (290). (60-7506)
- Annotation:* Issued also as: 61-028ad
Contr. Shimonoseki Coll. Fish., (291). (60-7514)
- Annotation:* Issued also as: 61-029ad
Contr. Shimonoseki Coll. Fish., (292). (60-7513)

ADDENDA

- Ref.*: 39 (2) : 217-26 61-030ad
Annotation: Issued also as: (60-5181)
Mar. Repr. Mar. Lab., Aberdeen, (127)
- Ref.*: (21 & 22) : 15 p. 61-031ad
Title: Lofotfiskets lønnsomhet 1958 (The rentability of Lofoten fishery 1958) (60-0680)
Annotation: Catches, participation, gear, and vessels in use, earnings and costs.
- Annotation*: Issued also as: 61-032ad
Contr. Nankai reg. Fish. Res. Lab. (147) (60-9144)
- Annotation*: Reviews and evaluates existing data and information relative to the effects of SWL on oysters and other marine life. 61-033ad (60-9190)
- Annotation*: There are indices to chemical compounds and to the scientific and common names of plants and animals, and a bibliography arranged alphabetically according to author. 61-034ad (60-9386)
- Annotation*: Co 60-4299. 61-035ad
Ab 1954 Kinney, E. C., Jr. (Thesis, Ohio State Univ.) (60-4300)
- Annotation*: *En* 61-07280, but lacking some diagrams in the original. 61-036ad (59-6672)
- Annotation*: Orig. issued as: *J. Mar. biol. Ass. India*, 1 (2) : 224-7. 61-037ad
 Reviews data collected by Andhra Univ. since 1952; river run-off; (60-0922)
 monsoon effects; fisheries possibilities.
- Annotation*: Defines and describes area and stations where collections were made. Presents data under headings of each sp. arranged in phylogenetic order. Lists common names used locally. 61-038ad (60-9191)
- Annotation*: Issued also as: 61-039ad
Annu. Conf. stheast. Ass. Game Commrs, (13) : 116-20. (60-5095)
- Annotation*: Issued also as: 61-040ad
Trans. N. Amer. Wild. Conf., (24) : 187-200. (60-5096)
- Annotation*: Issued also as: 61-041ad
Tech. Rep. Taft Engng Cent., (W58-2) : 157-76. (59-0348) (60-5308)
- Annotation*: Issued also as: 61-042ad
Tech. Rep. Taft Engng Cent., (W58-2) : 133-42. (59-1383)
- Reference*: 15-20. 61-043ad (59-5745)
- Annotation*: Issued also as: *Bull. Hakodate Mar. met. Obs.*, Item 2, (7) : 5 p. 61-044ad (60-9089)
- Annotation*: Issued also as: *Bull. Hakodate Mar. met. Obs.*, Item 1, (7) : 10 p. 61-045ad (60-9083)

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

- Annotation:* Issued also as: *Bull. Hakodate Mar. met. Obs.*, Item 3, 61-046ad
(7) : 6 p. (60-9096)
- Author:* Austria. FAC Committee (n.d.) 61-047ad
(60-5991)
- Annotation:* Special consideration of methods of making observations in "dirty" water and under adverse weather conditions. 61-048ad
(60-8973)
- Annotation:* Collects results of exploratory work conducted on 61-049ad
Oncorhynchus kisutch and *Cottus perplexus*. Describes methods (60-2804)
and apparatus used.

REFERENCES

- M
61-00001
- Lear, J.** (1960)
New Scient., 8 (199) : 650
A scientific adventure at sea

Commenting on recent studies of sea level.
- MF
61-00002
- Beck, C. A.** (1960)
New Scient., 8 (197) : 529-31
The chemical study of underwater explosions
- F
61-00003
- Anon.** (1960)
New Scient., 8 (197) : 533
Visual pigments in fish

Composition of extracts of pigments of *Scardinius erythrophthalmus* have been found by H. J. A. Dartnall and others of the British Institute of Ophthalmology to vary according to the time of the year. Two pigments are present in varying proportions.
- M
61-00004
- Anon.** (1960)
New Scient., 8 (196) : 475
Layering coral

Note on work of G. Scheer reported in *Naturwissenschaften*, (10) 1960 : 238 on growth of *Goniopora*, observed on 'Xarifa' expedition to Nicobar and Maldive Islands.
- M
61-00005
- Anon.** (1960)
New Scient., 8 (200) : 716-7
The study of movement in the seas

Biography of G. E. R. Deacon.
- MF
61-00006
- Pirie, N. W.** (1960)
Discovery, 21 (9) : 374-9
New sources of food

Includes reference to fisheries and fish culture. Improvement of marine resources and pollution; algal culture.
- M
61-00007
- Sykes, J. H. M.** (1960)
Discovery, 21 (9) : 392-4
Sea temperature differences

In tropical zones the sea is much colder at the bottom than it is on the surface. This difference of temperatures represents potential energy awaiting exploitation.

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- Southward, A. J.** (1960) M
61-00008
Discovery, 21 (8) : 330-7
 Farming the sea

According to the author the full exploitation of the vast resources of the sea requires the control of all nutrients and of the feeding, breeding, and migration of all marine creatures. This, however, is a very long-term plan; the development of the fisheries for plankton-feeding animals offers a short-term gain.

- Smith, A. G.** (1959)* M
61-00009
Rep. Amer. malacol. Un., 1959 : 41
 Kodachromes of the Cape San Lucas area

BA 35 (14) 36567.

- Keen, A. M.** (1959)* MF
61-00010
Rep. Amer. malacol. Un., 1959 : 36-7
 The molluscan section, British Museum of Natural History

BA 35 (14) 36587.

- Solem, A.** (1959)* MF
61-00011
Rep. Amer. malacol. Un., 1959 : 38
 Molluscan work at the Chicago Natural History Museum

BA 35 (14) 36588.

- Baker, H. B. & H. J. Stewart** (1960) MF
61-00012
Nautilus, 73 (4) : 159-60
 James Zetek, 1886-1959

BA 35 (14) 36623. Brief sketch of his life and career as a zoologist, with special reference to his work on molluscs.

- Fondation Universitaire, Brussels** (1960) MF
61-00013
 Brussels, 18 p.

Increasing the effectiveness of western science

Report of a study sponsored by NATO Science Committee, partially financed by Ford Foundation; initiated 14 Sep. 1959. Chapters on obstacles to advance; promoting progress by national and international action; the application of science; recommendations. Oceanography, meteorology, and water pollution are suggested as areas of sciences particularly suitable for international research. Considers problems of documentation and indexing, supply of equipment, exchange and employment of scientists.

REFERENCES

- Lill, G.** (1960) M
61-00014
Discovery, 21 (7) : 316
 The earth beneath the sea
 Re 60-3283.
- Film** (1960) M
61-00015
 Plymouth Films Ltd.
 The seashore
 16 mm, 20 min, sound, colour.
- Horiguchi, Y.** (1959) M
61-00016
Rep. Fac. Fish. Univ. Mie, 3 (2) : 381-90
 (Biochemical studies on *Pteria (Pinctada) martensii* (Dunker) and *Hyriopsis schlegelii* (V. Martens). 5. Studies on absorption, excretion and renewal of Ca in *Pteria (Pinctada) martensii* (Dunker) using ^{45}Ca). Ni En
- Segi, T.** (1959) M
61-00017
Rep. Fac. Fish. Univ. Mie, 3 (2) : 257-65
 Further study of *Polysiphonia* from Japan. I.
 Description of 10 species.
- Nair, P. V. R.** (1959) M
61-00018
Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 1-63
 The marine planktonic diatoms of the Trivandrum coast
 Systematic list, with morphological and distribution notes, prepared from material collected in regular bi-weekly collections. The species are grouped as neritic or oceanic and within these groups as arctic, temperate or tropical.
- John, C. C. & C. V. Kurien** (1959) M
61-00019
Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 155-62
 A preliminary note on the occurrence of deep water prawn and spiny lobster off the Kerala coast
 Note on the taking of *Penaeopsis philippii* (Bate) and *Panulirus sewelli* Ramadan, in the course of survey operations at the edge of the continental shelf (86 to 150 fathoms).
- John, C. C.** (1959) M
61-00020
Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 65-145
 Fishes and fisheries of the Cape Comorin Bank
 Review of fishing operations in this area, with check list of species taken.

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F

Padmanabhan, K. G. (1959)

61-00021

Bull. Res. Inst. Univ. Kerala, Ser. C, 7 (1) : 147-54

Early stages in the development of *Laubuca dadiburjori* (Menon)

Breeding habits, embryonic and larval development.

M

Anon. (1959)

61-00022

Bull. Hakodate Mar. met. Obs., 6 : Item 7, 4 p.

(Forecast of water temperature in the sea east of Tohoku district in mid-summer, 1958). *Ni En*

Prediction based on observations of various features of prevailing sea conditions during spring and of water temperature in midsummer.

M

Watanabe, K. (1959)

61-00023

Bull. Hakodate Mar. met. Obs., 6 : Item 7, 4 p.

On the first appearance of drift-ice in every winter and the seasonal variation of oceanographic conditions in the south-western region of the Okhotsk Sea. *Ni En*

M

Aoki, K. & S. Miura (1959)

61-00024

Bull. Hakodate Mar. met. Obs., 6 : Item 9, 9 p.

(On the local heavy rainfall over south-western part of Hokkaido on April 21, 1958). *Ni En*

Analysis of the distribution of this fall and of the determining factors.

M

Sawada, T. (1959)

61-00025

Bull. Hakodate Mar. met. Obs., 6 : Item 8, 6 p.

(An ice-area navigation on the north Pacific Ocean). *Ni En*

Location of ice areas and finding and making paths through them.

M

Sawada, T. (1959)

61-00026

Bull. Hakodate Mar. met. Obs., 6 : Item 6, 7 p.

(A method of forecasting the first date of the appearance of drift-ice area along the Okhotsk Sea-side coast). *Ni En*

Presentation of a nomograph for forecasting ice area appearance by the addition of two vectors, velocity of current-induced and wind-induced drifts.

M

Sugiura, J. (1959)

61-00027

Bull. Hakodate Mar. met. Obs., 6 : Item 4, 5 p.

(Oceanographic conditions in the north-western north Pacific based upon the data obtained on board the 'Komahashi' from 1934-6). *Ni En*

Report on volume transport of the Oyashio Current and of the westward current south of the Aleutian Islands.

REFERENCES

- M
61-00028
- McKinnon, G. W. (1960)**
Aust. J. Sci., 23 (2) : 50-1
 Structure of Antarctica

Referring to a letter by Taylor (*Aust. J. Sci.*, 22 (7) 1960, 299-300) cites paper by Bentley *et al.* (*Science*, 131 (3394) 1960, 131-6) disproving Taylor's view that there is a major channel connecting the Ross and Weddell Seas.

- MF
61-00029
- Western Australia. Fisheries Department (1960)**
Mon. Serv. Bull. Fish. Dep. W. Aust., 9 (5)

Notes on staff and their activities, and on regulations and legal actions; also notes of fishery developments, notably, in this issue, report of commencement of prawn and scallop prospecting near Shark Bay; notes on recent fishery publications.

- M
61-00030
- Uyeno, F. (1959)**
Rep. Fac. Fish. Univ. Mie, 3 (2) : 407-35

(Quantitative studies on the abundance and the seasons of bloom of some important diatom species in the neighbouring sea of Japan: analysis on the data of "Plankton Journal"). *Ni En*

Examination of the influence of temperature and salinity on distribution and abundance of various diatom species.

- M
61-00031
- Rochford, D. J. (1960)**
Aust. J. Mar. Freshw. Res., 11 (2) : 166-81
 Some aspects of the deep circulation of the Tasman and Coral Seas

Sections, for salinity, oxygen, and phosphate along meridian 155° E between latitudes 14° S and 42° S and zonal sections of the same properties between meridians 149° E and 155° E in the latitude range 14-15° S prepared from data from selected stations deeper than 2,000 m and discussed with reference to general circulation in this area.

- M
61-00032
- Rochford, D. J. (1960)**
Aust. J. Mar. Freshw. Res., 11 (2) : 127-47

The intermediate depth waters of the Tasman and Coral Seas. 1. The 27.20 sigma t surface

The distribution of salinity, dissolved oxygen and phosphates on the 27.20 sigma t surface of the Tasman and Coral Seas is examined. Their distribution patterns and the relations of salinity and phosphate values on this sigma t surface are explained by the horizontal mixing of three water types.

M

Rochford, D. J. (1960)

61-00033

Aust. J. Mar. Freshw. Res., 11 (2) : 148-65

The intermediate depth waters of the Tasman and Coral Seas. 2. The 26.80 sigma t surface

The distribution of salinity, dissolved oxygen, and phosphates on the 26.80 sigma t surface of the Tasman and Coral Seas is examined. The distribution patterns of these properties and the relations of salinity and phosphate and salinity and oxygen values are explained by horizontal mixing of three water types.

M

Bennett, I. & E. C. Pope (1960)

61-00034

Aust. J. Mar. Freshw. Res., 11 (2) : 182-221

Intertidal zonation of the exposed rocky shores of Tasmania and its relationship with the rest of Australia

The environmental factors and the zonation of the plants and animals on the exposed rocky coasts of Tasmania are described, and the findings of the present survey are compared with those of other workers both in Tasmania and in south-east Australia generally.

F

Byars, J. A. (1960)

61-00035

Aust. J. Mar. Freshw. Res., 11 (2) : 222-40

A freshwater pond in New Zealand

Report of one year's observation of physical and chemical factors and of plankton and examination of the effect of non-biological factors on zoo-plankton.

M

Stephenson, W. & R. B. Searles (1960)

61-00036

Aust. J. Mar. Freshw. Res., 11 (2) : 241-67

Experimental studies on the ecology of intertidal environments at Heron Island. 1. Exclusion of fish from beach rock

Description of zonation of dominant organisms on beach rock and examination of factors influencing the populations; experiments were conducted to assess various factors, notably browsing fish.

M

Van Pel, H. (1960)

61-00037

S. Pacif. Bull., 10 (3) : 25-8

S.P.C. fisheries investigations in Melanesia

Ill. account of visit to British Solomon Islands, Papua and New Guinea, and Netherlands New Guinea describing fishing and fish cultural activities seen, and reporting advice given.

M

Anon. (1960)

61-00038

S. Pacif. Bull., 10 (3) : 28

Encouraging trap fishing investigations in Cook Islands

Note on experiments in the use of traps for fishing on the Cook Islands.

REFERENCES

- M
61-00039
- Angot, M.** (1960)
S. Pacif. Bull., 10 (3) : 46-50
 The utilization of marine resources in French Polynesia
- Describes methods of fishing in lagoons, on reefs and outside reefs and general marketing arrangements.
- M
61-00040
- Yagiu, R. & Y. Shigenaka** (1960)
Zool. Mag., Tokyo, 69 (6) : 183-9
 (Electron microscopical observations of *Condyllostoma spatiosum* Ozaki & Yagiu, in ultra-thin section. 5. The longitudinal fibrillar bundle (Kineto-desma)). Ni En
- Morphological features at ultra-microscopic dimensions.
- F
61-00041
- Yamamoto, Y.** (1960)
Zool. Mag., Tokyo, 69 (6) : 195-201
 (Effect of eyestalk hormones on the midgut gland in the crayfish, *Procambarus clarkii*). Ni En
- Observations (histological) on the midgut gland (generally degeneration), with measurement of gastrolith weight and of mortality, in crayfish from which eyestalks were removed, and of supervening effects induced by implantation of contents of eyestalk with or without sinus gland, isolated X-organ, and the isolated sinus gland.
- M
61-00042
- Katada, M., K. Zama & H. Igarashi** (1960)
Bull. Jap. Soc. sci. Fish., 26 (4) : 425-9
 (Lipids of the muscle of tuna, *Thynnus orientalis*. 7. Distribution of lipids in dark-coloured muscle, ordinary muscle, and several other tissues). Ni En
- M
61-00043
- Choe, S.** (1960)
Bull. Jap. Soc. sci. Fish., 26 (4) : 430-7
 (On the life history of the polychaete worm, *Diopatra neapolitana* Delle Chiaje). Ni En
- Observations on sexuality, breeding season, development and metamorphosis, growth, weight/length relation, and age.
- M
61-00044
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Tabulation of analytical results.

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Rec. oceanogr. Wks Jap., Spec. No. 4 : 79-84
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 Quantitative determination of beryllium in seaweeds

Analytical method and some results.

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Analytical method and some results.

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- Station list showing depth, bottom temperature and nature, and list showing for each species the stations at which it was taken.
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 On the exchange of water and the productivity of a bay with special reference to Tanabe Bay (3)
- Calculation of the difference between specific gravity of sea water at 0°C from Knudsen tables and its value from direct measurement (designated "mass defect"), its attribution to consumption of dissolved materials by living organisms, observation of its distribution in the Bay in relation with run-off as a determinant of chlorinity.
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Experimental examination of the conditions of formation of two-component precipitates and of three-component precipitates and of the use of certain of these precipitates in qualitative estimate of boric acid.

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Description of pond topography and its physical and chemical conditions ; in terms of which five distinct stages are noted ; faunal elements are listed, annual differences described, and food relations are reported.

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Morphological characteristics of ordinary and accessory sinus glands.

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J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 265-81
 The life-history of a Japanese brackish water hydroid, *Ostroumovia horii*

Habitat is described briefly; external & internal morphology of polyp and Medusa is described for mature and embryonic forms; structure and location of nematocysts; distribution in Japan and taxonomic status.

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J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 282-5
 On the nature and behaviour of secretory granules in hatching gland cells of the freshwater teleost, *Odontobutis obscura*

Morphological and cytochemical observations on the nature and behaviour of the secretory, or hatching, granules in cells forming the hatching gland in this sp.

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J. Fac. Fish. Hokkaido Univ., Ser. 6, 14 (2) : 286-91
 Cytochemical studies on hatching gland cells in two fresh-water teleosts, *Odontobutis obscura* and *Zacco platypus*

Application of tests for proteins, nucleic acids, lipids, and polysaccharides.

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 Tabulated physical-chemical and biological data.
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 (Report of the oceanographic observations in the Okhotsk Sea and in the sea east of Tokohu District from May to June, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
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- Anon.** (1960)
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 (Report of the oceanographic observations in the sea east of Honshu from January to February, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
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- Anon.** (1960)
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 (Report of the oceanographic observations in the sea east of Honshu from May to June, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
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 (Report of the oceanographic observations in the sea south of Honshu from February to March, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
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Results mar. Obsns, Tokyo, 25 : 40-7
 (Report of the oceanographic observations in the sea south of Honshu in May, 1959). *Ni En*
 Tabulated physical-chemical and biological data.
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- Anon.** (1960)
Results mar. Obsns, Tokyo, 25 : 48-56
 (Report of the oceanographic observations in the sea west of Japan from January to February, 1959). *Ni En*
 Tabulated physical-chemical and biological data.

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61-00157
- Anon. (1960)**
Results mar. Obsns, Tokyo, 25 : 57-64
 (Report of the oceanographic observations in the Japan Sea from June to July, 1959). *Ni En*

Tabulated physical-chemical and biological data.

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 (Report of the oceanographic observations off Kyogamisaki and in the western part of Wakasa-Bay from February to June, 1959). *Ni En*

Tabulated physical-chemical and biological data.

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Tabulation of analytical results and discussion of the relation between lead content, and geology and depth.

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Distribution and relative quantities of calcium and phosphorus in this sp.

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 Studies on the direct manufacture of sodium hydroxide and other materials from sea water. Part 6. Effects of magnesium and calcium ions: a supplement.

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- Adaptation or preference of *Cypsilurus pinnatibarbatus japonicus* and *Dan-ichthys rondeleti*—or a close ally—for cool water and annual changes in composition and abundance of fishes in the path of the "Kuroshiwo".
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The dynamics of *Daphnia pulex* populations and of *Dugesia tigrina* populations as modified by immigration
DA 21 (1) : 375-6. There have been numerous experimental studies of effects of fishing on animal populations, but few of effects of complementary stress, immigration. Present research was concerned with the effects of immigration upon : (1) laboratory populations of the crustacean, *D. pulex*, maintained by a constant supply of the alga *Chlamydomonas reinhardtii*, and (2) laboratory populations of the flatworm, *D. tigrina*, maintained by a constant supply of brine shrimp.
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Growth and differentiation in *Craspedacusta sowerbii*
DA 21 (1) : 381. A study was made of asexual generation with particular emphasis on growth rates and morphological variation. Colonies of this coelenterate were grown from frustules collected in a tributary of the Huron River near Ann Arbor, Michigan. Polyps were fed brine shrimp nauplii.
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HA29 (3) 1130.
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Les cysticercooses communes à l'homme et aux animaux (Cysticerciasis common to man and animals)
Briefly reviews occurrence of diphyllbothriasis in man and fish. *Diphyllbothrium* infection is most frequently encountered in areas around the Baltic and North Seas, the Danube delta and the Swiss and Italian lakes.
HA 29 (3) 1238.
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On the occurrence of fish mortality due to helminthic infestation by cestode cysts in a stocking tank at Nagpur (India)
HA 29 (3) 1244. Reports heavy mortality of fingerlings of *Labeo rohita*, *Cirrhina mrigala* and *Catla catla* caused by presence of minute cysts in various regions of the alimentary canal.

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 (Parasitic diseases of fish dangerous to man in the area of barrage reservoirs).
 Ru En Pl

HA 29 (3) 1247. Compares infections with *Diphyllbothrium latum* and *Opisthorchis felineus* in fish in 3 reservoirs along the Volga, which have been dammed off for different lengths of time. Exploitation for fish farming encourages human settlements along coast and this, coupled with an expected increase in infection over that in the river, presents conditions particularly favourable for the spread of infections.

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 (The parasite fauna of Acipenseridae of the River Kura). Ru

HA 29 (3) 1249. 9 helminth spp. were found during 1953-55 by examination of 8 *Huso-huso caspius* and 40 specimens of *Acipenser* from estuary.

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Izv. Akad. Nauk azerbaidzhan S.S.R., (9): 95-101
 (Some data on the distribution of ligulids in Azerbaidzhan waters). Ru

HA 29 (3) 1250. *Ligula intestinalis* and *Digramma interrupta* are widely distributed in Azerbaidzhan. In 1955, infection was observed in the River Kura in bleak and bream—mass infection—in *Varicorhinus capoeta sevangi*.

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 Nótula sobre o pacamão *Lophiosilurus alexandri* Steindachner, 1876 (Note on the catfish *Lophiosilurus alexandri* Steindachner, 1876)

HA 29 (3) 1251. Nematodes and trematodes were found in intestine, stomach and gall-bladder of 12% examined during a survey of fish from waterways in the basin of São Francisco River, Brazil.

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Wiad. Parazyt., 5 (4-5) : 459-62
 Zagadnienia parazytologiczne w rybactwie polskim (Parasitological problems in Polish fisheries). En

HA 29 (3) 1253. Recent work on parasites of fish in Poland incl. investigation of influence of ecological factors on the composition of the parasite fauna, the biology and pathology of worms, and the study of parasites in the Vistula and in many lakes. The parasite fauna of the Baltic and some water reservoirs, and various aspects of pathology, prophylaxis and treatment await investigation.

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Zool. Zh., 38 (11) : 1612-9
 (The benthal fauna of the lowland water reservoirs of the central Dnieper region to be flooded by the waters of the Dneprodzerzhinsk reservoir). Ru En

HA 29 (3) 1254. Fauna incl. various molluscs, crustaceans and leeches.

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 Reports of the Lund University Chile Expedition 1948-49. 34. Free-living marine nematodes—4. General part

HA 29 (3) 1256. Ecological study of Chilean coastal waters, classifying them in a manner very similar to that used previously in the case of European marine nematodes. List of 500 papers on free-living marine nematodes, believed by the author to be a complete bibliography up to November, 1957.

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Parasitology, 49 (3-4) : 477
Neosprostonia, a new name for *Sprostonia* Jain, 1959

HA 29 (3) 1322. Genus of fresh-water Tetraonchinae, *Sprostonia* Jain, 1959, is invalid since name is preoccupied by *Sprostonia* Bikhovski, 1957. Therefore renames genus *Neosprostonia*. Two other genera, *Bychowsyella* Akhmerov, 1952, and *Silondotrema* Tripathi, 1957, have almost identical generic characters with *Neosprostonia*. The two latter genera must be regarded as synonyms of *Bychowsyella* Akhmerov, 1952, which has priority.

- Coil, W. H.** (1960) F
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Proc. helm. Soc. Wash., 27 (1) : 39-41
 Studies on two gorgoderid cercariae from Oklahoma with the description of a new species

HA 29 (3) 1327. *Cercaria papillostoma* n.sp. from the gills of *Pisidium compressum*. Setate papillae of a second—unnamed—gorgoderid cercaria are described.

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61-00187
- Iles, C.** (1959)
Parasitology, 49 (3-4) : 478-504
The larval trematodes of certain freshwater molluscs—I. The Furcocercariae
- HA 29 (3) 1329. 8 spp. of furcocercous Cercariae are recorded from fresh-water molluscs in Glamorganshire. 3 new spp. of pharyngeal, longifurcous, distome Cercariae are described. *Cercaria tetraglandis* n.sp. from *Planorbis corneus*, *C. Baracauda* n.sp. from *Lymnaea pereger* and *C. planorbida* n.sp. from *P. planorbis*. *C. vivacis* n.sp. from *Bithynia tentaculata* also described.
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- Khalil, L. F.** (1959)
J. Helminth., 33 (4) : 263-6
On a new trematode, *Astiotrema sudanensis* sp. nov., from a freshwater turtle in the Sudan
- HA 29 (3) 1330. Previous reviews of *Astiotrema* are noted. *A. reniferum* is reported for the first time from the intestine of *Clarias lazera*. Key to 5 valid spp. of *Astiotrema* is given.
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- HA 29 (3) 1334. Recovered from haemocoel of *Limnéphilus* sp. larvae in Cape Cod, Massachusetts. Natural and experimental infections showed that normal intermediate clam host was *Pisidium abditum*. Attempts to infect *Eucalia inconstans*, *Fundulus heteroclitus* and *Salvelinus fontinalis* with infected caddis fly larvae were unsuccessful.
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Acanthocéphales du genre *Corynosoma* Lühe, 1904, parasites de mammifères d'Alaska et de Midway (Acanthocephala of genus *Corynosoma* Lühe, 1904, mammal parasites of Alaska and Midway)
- HA 29 (3) 1344. Discusses biology and systematics of genus, gives host-parasite list of the sp. found in birds and an account, together with a dichotomous key, of those found in marine mammals. Collection from marine mammals made by Rausch in Alaska, and incl. 2 new spp. is reported on. *C. alaskensis* n.sp., from the intestine of *Phocaena vomerina* from Hooper Bay; *C. rauschi* n.sp., from the intestine of *Monachus schauinslandii* from Midway Island.
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Studies on the nematode parasites of insects and other arthropods
- HA 29 (3) 1368. New records for India incl. *Pseudonymus hydrophili* (Galeb, 1878) Stiles & Hassall, 1905 from an aquatic beetle at Vizianagram.

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- Nakase, M.** (1958)
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 (Studies on the cystic larvae parasitic in crabs in Shikoku District—
 Report 1. *Paragonimus westermani*). Ni En

HA 29 (3) 1387. During the period from March 1953 to December 1956, 14 different kinds of fresh-water crabs, totalling 4,284 in number, all of them found in rivers in Shikoku Island, were examined for Metacercariae. 6 spp. occurred.

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- Nakase, M.** (1958)
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 Report 2. *Macrorchis spinulosus*, *Microphalloides japonicus*, and a kind of *Levinseniella*). Ni En

HA 29 (3) 1388.

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Shikoku Acta med., 13 (4) : 520-7
 (Studies on the cystic larvae parasitic in crabs in Shikoku District—
 Report 3. *Metacercaria shikokuensis* n.sp.) Ni En

HA 29 (3) 1389.

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 A new method of detecting parasitic organisms in drinking water

HA 29 (3) 1409. Technique for detecting parasitic organisms in water described. Consists of (1) filtering under pressure through an asbestos disc; (2) disintegrating the discs in 60 ml of sterile water; (3) filtering the residue so obtained through fine gauze; (4) centrifuging the filtrate at 1,000 r.p.m. in 15 ml tubes; (5) concentrating samples of the sediment by Faust's technique or with Artigas' modification.

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 Studies on the genus *Homalometron* Stafford, 1904 (Trematoda: Lepocreadiidae), with a redescription of *H. armatum* (MacCallum, 1895)

HA 29 (3) 1452. Redescribes *H. armatum* (MacCallum, 1885) Manter, 1947 from 250 specimens collected from 3 host spp., *Aplodinotus grunniens*, *Lepomis humilis* and *L. microlophys*, from Louisiana. *H. pearsei* Hunger & Bangham, 1932, is shown to be synonymous with *H. armatum*.

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- Hopkins, C. A.** (1959)
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 Seasonal variations in the incidence and development of the cestode *Proteocephalus filicollis* (Rud. 1810) in *Gasterosteus aculeatus* (L. 1766)

HA 29 (3) 1464.

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Parazit. Sborn., 18 : 295-303
 (Oxygen content of a water reservoir as one of the factors influencing the biology of *Dactylogyrus solidus* and *D. vastator*). *Ru En*

HA 29 (3) 1496.

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Wiad. Parazyt., 5 (4-5) : 453-8
 Wpływ czynników ekologicznych na faunę Monogenoidea u ryb (The influence of ecological factors on the Monogenoidea fauna of fishes). *En*

HA 29 (3) 1508. Following observations of fauna of Monogenoidea from fishes along the whole course of the Vistula, makes suggestions concerning the influence of ecological factors on these parasites. 2 out of 20 spp. examined, *Dactylogyrus crucifur* and *D. difformis*, were more frequent in water with a high salt content than otherwise, perhaps owing to the migration of their hosts into the sea.

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Acta med. scand., 159 (6) : 433-7
 Neurotropic factors in the fish tapeworm

HA 29 (3) 1519. Extract of *Diphyllbothrium latum* was observed to have a marked neurotropic effect in clinical tests in three cases of pernicious anaemia.

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On parasites of seals from the Dutch coastal waters and their pathogenity

HA 29 (3) 1521. Reports findings on post-mortem examinations of *Phoca vitulina*. In the alimentary canal *Porrocaecum decipiens* (Krabbe, 1878), *Contracaecum osculatum* (Rudolphi, 1802), *Cryptocotyle lingua* (Creplin, 1825), *Diphyllbothrium* sp. and some unidentified heterophyid trematodes were found. In the lungs and heart *Otostrongylus circumlitus* (Railliet, 1899), *Paraflaroides gymnuris* (Railliet, 1899), and *Skrjabinaria spirocauda* (Leidy, 1858).

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Note on the biochemical stratification in pond fisheries and their productivity

WPA 33 (11) 1982. It is concluded that in assessing the productivity of a fish-pond it is not sufficient to sample the water in the surface layers, but the extent of stratification of dissolved oxygen and carbon dioxide through the pond should be determined.

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DA 20 (7) : 2760.
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Thesis, Princeton Univ., USA, 62 p.
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Thesis, Univ. of Georgia, USA, 135 p.
The role of two invertebrate populations, *Littorina irrorata* and *Orchelimum fidicinium*, in the energy flow of a salt marsh ecosystem
DA 20 (7) : 2979. Energy relationships of three components of a salt marsh on the Georgia coast were studied. Assimilation rates for the snail, *Littorina*.
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61-00293
- Hatch, R. W. (1959)**
Thesis, Cornell Univ., USA, 233 p.
Trout production in four Adirondack lakes
DA 20 (8) : 2998-9. Four sub-alpine oligotrophic lakes near Old Forge, New York, were sampled twice a year from 1955 to 1957. All lakes were reclaimed with rotenone and restocked with brook trout, *Salvelinus fontinalis*—one lake also received rainbow trout, *Salmo gairdneri*. Reared from unselected wild eggs and two domestic stocks.

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The effects of sodium fluoride on carp and rainbow trout

DA 20 (8) : 3032-3.

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Anderson, R. G. (1958)
Thesis, The Univ. of Nebraska, USA, 189 p.
The growth and reproduction of *Chara* in a definable nutrient medium

DA 20 (8) : 3034-5.

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The dynamics of turbulent flow in steep, rough, open channels

DA 20 (8) : 3248. Flow in channels such as at the head-water of streams.

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Thesis, Univ. of Illinois, USA, 162 p.
The distribution and ecology of fishes of Mississippi Sound

DA 20 (8) : 3439. Field study in summers of 1951, 1953, 1956 and early spring of 1956. Collections were made with shrimp trawls, beach seines, minnow seines, rotenone, hook and lines, and spears. Total lengths of all fish. Ecological conditions, such as temperature, salinity, turbidity, type of bottom, depth and vegetation were recorded.

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Sur la circulation générale convective dans les océans (On the general convective circulation in the oceans). En

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Results mar. Obsns, (24) : 289 p.
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Description of tagging equipment and technique and a few notes on recoveries of sprat tagged in Norwegian waters.

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 Die Verbreitung und das jahreszeitliche Auftreten der Antomeduse *Rathkea octopunctata* M. Sars, sowie die Temperaturabhängigkeit ihrer Entwicklung und Verbreitung (The distribution and seasonal occurrence of the anthomedusa *Rathkea octopunctata* M. Sars as well as the dependency on temperature of its development and distribution). En
- Ill. description, based on observations and measurements in its area of distribution, North Sea and adjacent waters, and experimental proof of the dependence of the essential phases of development and reproduction on the water temperature.
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- Popular discussion on the causes of the large catches of *Clupea sprattus* in the Baltic in 1957.
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- Anon.** (1959)
Dtsch. Fisch Ztg., 6 (6) : 161-4
 Bericht über die 2. wissenschaftlich-wirtschaftliche Expedition an die westafrikanische Küste (Report on the 2nd scientific and commercial expedition to the coast of West Africa)
- Report on a publication by D.A.N. Probatow on a Russian expedition in 1958. In particular concerned with *Sardinella aurita*, and *Sardinops sagax ocellata*. Notes on the extension of the fishing areas. Fat contents of the fishes. Projects for catching.
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- Schäperclaus, W.** (1959)
Dtsch. Fisch Ztg., 6 (6) : 176-9
 Grossversuche mit Streptomycin zur Bekämpfung der infektiösen Bauchwassersucht des Karpfens (Large scale experiments using streptomycine for the control of contagious ascites in carp)
- As resistance against chloronitrine may develop in controlling ascites, various antibiotics have been tested on their efficiency. Report on results using streptomycine in three ponds in the German Democratic Republic.
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- Arndt, H.** (1959)
Dtsch. Fisch Ztg., 6 (6) : 171-2
 Hechtbrut als Besatz (Pike fry for stocking)
- Report of a fisherman on recent experiences in transporting and releasing pike fry, *Esox lucius*.

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Kessler, H. (1958)

61-00306

Kieler Meeresforsch., 14 (1) : 23-41

Eine mikrokryoskopische Methode zur Bestimmung des Turgors von Meeresalgen (A micro-kryoscopical method to determinate the turgor of marine algae)

Description of the apparatus, working method, possibilities of error, range of use. Method tested in following marine algae in Baltic, *Bryopsis plumosa*, *Chaetomorpha linum*, *Chara baltica*.

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Schlieper, C. & R. Kowalski (1958)

61-00307

Kieler Meeresforsch., 14 (1) : 42-7

Ein zellulärer Regulationsmechanismus für erhöhte Kiemenventilation nach Anoxybiose bei *Mytilus edulis* L. (A cellular mechanism of regulation for increased gill ventilation after anoxybiosis in *Mytilus edulis* L.)

Mytilus edulis has been kept dry in the air for one to three days ; after this the activity of the gill filaments of gill fragments in ventilated sea-water has been checked.

M

Schwenke, H. (1958)

61-00308

Kieler Meeresforsch., 14 (1) : 11-22

Über die Salzgehaltsresistenz einiger Rotalgen der Kieler Bucht (On the salinity resistance of some red algae of the Kiel Bay)

Notes on experiments in aquaria with various degrees of salinity. Width of resistance, influence of temperature and light on tests. Spp. used: *Plocamium coccineum*, *Brongniartella byss*, *Phycodrys rubens*, *Polysiphonia urceolata*, *Membranoptera alata*, *Polysiphonia nigrescens*, *Antithamnion plumula*, *Delesseria sanguinea*, *Ceramium rubrum*.

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Schweiz. Z. Hydrol., 21 (1) : 19-108

Limnologische Untersuchungen im Hauserseegebiet (Limnological investigations in the region of Lake Hauser)

Notes on the chemical conditions and stratification of the heavy eutrophic lake. List of plankton organisms. 59 references. Description of plankton associations.

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Dtsch. Fisch.Ztg., 6 (7) : 232-7

Ergebnisse von Fangversuchen mit Langleinen auf Dorsch (Results of experiments using long-lines to catch cod)

Comparison of different types of hooks and lines for fishing *Gadus morhua* in the Baltic.

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 Betrachtungen über die Gesamtanlandungen aus der Ostsee (Considerations on the total landings from the Baltic)
 Popular description of fisheries statistics of the Baltic.
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 Die Fangmengen der Thune in Ostatlantik (The amount of tuna landed around the eastern Atlantic)
 Popular description of *Thynnus thynnus* fisheries in the eastern Atlantic based on the Yearbook of Fishery Statistics, FAO, Vol. 6, 1956.
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Dtsch. Fisch Ztg., 6 (7) : 210-3
 Gesichtspunkte zur Nahrungsaufnahme von K_0 und K_1 (Aspects on the food intake of K_0 and K_1)
 Describes weights and food analyses of one summer old *Cyprinus carpio* from ponds in central Germany.
- F
- Lieder, U.** (1959) 61-00314
Dtsch. Fisch Ztg., 6 (7) : 207-9
 Das Wachstum des amerikanischen Flusskrebsses in märkischen Gewässern (Growth of the American crayfish in waters of the March of Brandenburg)
 Reports on tagging and rearing experiments with *Cambarus affinis* in lakes of central Germany.
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Dtsch. Fisch Ztg., 6 (7) : 202-6
 Standorttreue von Bachforellen (*Salmo trutta fario* L.) und Äsche (*Thymallus thymallus* L.) (Homing instinct of brown trout, *Salmo trutta fario* L., and greyling, *Thymallus thymallus*)
 Reports on recaptures of tagged *Salmo trutta fario* L. and *Thymallus thymallus* in a brook in the German Democratic Republic.
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 Comparative investigations on the morphology of the intestinal tract of Clupeidae
 Reports investigations on the intestines of 101 specimens: Clupeidae (46), Engraulidae (44), Dussimieriidae (9) and Dorosomatidae (2). Discusses morphology, growth, influence of alimentation and environmental factors and proportions of other internal organs.

Lindner, A. (1957)M
61-00317*Dtsch. Fisch Ztg.*, 4 (10) : 296-6

Die Bedeutung des marinen Planktons für den Fischfang (The importance of marine plankton in fisheries)

Popular discussion. Notes on results of stomach investigations in *Gadus morhua* of the western Barents Sea.**Zahn, R. K. et al.** (1959)M
61-00318*Naturwissenschaften*, 46 (17) : 518Über eine biologische Wirkung des Desoxyribonuclease I auf die Entwicklung befruchteter Eier von *Sphaerechinus granularis* (On the biological effects of desoxyribonuclease I on the development of fertilized eggs of *Sphaerechinus granularis*)Short note on insemination of 30,000 eggs of *Sphaerechinus granularis*. Within a series the dishes contained 0 to 10×10^{-6} g desoxyribonuclease I—Worthington, cryst.—Determination of cell number in intervals.**Klausewitz, W.** (1957)F
61-00319*Senckenbergiana*, 38 (5/6) : 279-82*Barbus schneemanni* und *Aplocheilichthys maculatus*, zwei neue Fische aus Ost-Afrika (*Barbus schneemanni* and *Aplocheilichthys maculatus*, two new species from East Africa)

Drawings and taxonomic characters of the 2 newly described spp.

Geisler, R. (1959)F
61-000320*Bull. aquat. Biol.*, 1 (4)Zur Kenntnis des Lebensraumes ostafrikanischer Cyprinodontinae der Gattung *Nothobranchius* (Contribution to the knowledge of the environment of East African Cyprinodontidae of the genus *Nothobranchius*)

Description of the biotope, chemical analysis of a water sample taken in July 1958 from the region of Beira, Portuguese East Africa.

Wickler, W. (1959)F
61-00321*Bull. aquat. Biol.*, 1 (5)

Über einige Beobachtungen Kunath's zum Kampfverhalten der Nannostomidi (On some observations by Kunath on the fighting behaviour of the Nannostomidi)

Supplement to a paper on *Nannostomus beckfordi aripirangensis* with further observations on *Nannostomus beckfordi beckfordi* Günther, *N. b. aripirangensis* Meinken, *N. marginatus* Eigenmann, *Nannobrycon eques* Steindachner.

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Fischwirt., 9 (9) : 261-4
Waschmittelhaltige Abwässer; Zelluloseabbau und Fischertrag in Fisch-
teichen (Waste waters containing washing agents; decomposition of cellulose
and yield of fish ponds)
- Discusses the disadvantages of the use of waste water containing detergents
in fish ponds.
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61-00323
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Fischwirt., 9 (5) : 126-8
Das Wachstum markierter und nicht markierter Karpfen (Growth of
tagged and not tagged carp)
- Feeding tests to establish whether tagging of carp with perlon filaments
influences the growth.
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Fischwirt., 9 (5) : 129-34
Die elektrische Wollhandkrabbensperre in der Eider (The electrical obstacle
against mitten crab in the Eider River)
- Reports on tests carried out with *Eriocheir sinensis* at the sluice of the
Eider River in Schleswig-Holstein.
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- Joseph, J. & H. Sendner** (1958)
Dtsch. hydrogr. Z., 11 (2) : 49-77
Über die horizontale Diffusion im Meer (On the horizontal diffusion in the
sea)
- In regions with mean radii varying from 10 to 1500 km, the diffusion of a
substance initially concentrated to a point was studied. The solutions of
given equations were compared with the observations of the nonstationary
diffusion of radioactive matter, organic substance and the stationary diffusion
of Mediterranean water of high salinity in the Atlantic Ocean. Spectrum of
tidal turbulence computed for the North Sea.
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Dtsch. hydrogr. Z., 11 (2) : 78-82
Beiträge zur Klimaschwankungen im Meere. 10. Beitrag: Die Anomalie
der Wassertemperatur und der Zirkulation in Nordpazifischen Ozean und
an der Küste Perus im Jahre 1955 (Contributions to the climatic changes in
the sea. Contribution No. 10: The anomaly of water temperature and circula-
tion in the North Pacific and on the coast of Peru in 1955)
- Association of anomalies of the sea surface temperature with a pronounced
anomaly of atmospheric circulation; 30 years series of sea surface temperature
observations from Puerto Chicama, Peru.

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Fischwirt, 9 (3) : 65-71
 Ergebnisse der Albaumer Leistungsprüfungen mit Forellen in den Jahren 1957 und 1958 (Results of the productivity tests in trout at Albaum during 1957 and 1958)
- Reports on growth rate of various samples of *Salmo irideus* from pond cultures and two hatcheries; marking of trout by clipping the fins.
- F
61-00328
- Anon.** (1959)
Fischwirt, 9 (3) : 71
 Cercarienbefall bei Forellen (Infection with cercaria in trout)
- Notes on infection of *Salmo irideus* and *Salmo trutta fario* from an artificial ake in northern Germany with metacercaria.
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61-00329
- Tack, E.** (1959)
Fischwirt, 9 (4) : 109
 Ergebnisse der Albaumer Leistungsprüfungen mit Forellen in den Jahren 1957-58 (Results of the productivity tests in trout at Albaum in 1957 and 1958)
- Co 61-00327. 600 *Salmo irideus* have been tested on their growth rate. Examples of the calculation of the scores are given.
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61-00330
- Pape, A.** (1959)
Fischwirt, 9 (4) : 93-101
 Intensivierung der Binnenfischerei durch Vorstrecken von Hechtbrut (Raising of the productivity of inland fisheries by feeding pike-fry in the hatchery)
- Describes tests with *Esox lucius* in round tanks.
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61-00331
- Windt, H.** (1959)
Kieler Meeresforsch., 15 (1) : 84-8
 Beobachtungen über die Nahrungsaufnahme und das Verhalten der Seenelke *Metridium senile* L. (Observations on the reception of food and on the behaviour of the sea anemone *Metridium senile* L.)
- Describes condition of expansion, reactions to food, differences in the behaviour of individuals in the reception of food.
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61-00332
- Lagerspetz, K. & A. Sirkka** (1959)
Kieler Meeresforsch., 15 (1) : 89-96
 Versuche über den Sauerstoffverbrauch von *Mytilus edulis* aus dem Brackwasser der finnischen Küste (Experiments on the rate of oxygen consumption of *Mytilus edulis* from the brackish water of the Finnish coast)
- Discusses transference of animals or tissues to sea water with salinities of 5, 15 and 30 per 1,000; relation between oxygen consumption and body size; experiments with different temperatures.

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Kieler Meeresforsch., 15 (1) : 97-104
 Zwei neue Milben aus dem Küstengrundwasser des Roten Meeres (Two new water mites from the coastal ground water of the Red Sea)
 Description and detailed drawings of 2 new spp. and new genera of water mites: *RHODACAROIDES aegyptiacus* n.g.n.sp. and *DENDROUROPODA schulzi* n.g.n.sp.
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Arch. FischWiss., 9 (3) : 203-22
 Limnologische Untersuchungen im Walchensee in den Jahren 1950-58. II. Untersuchungen über die Litoralfauna des Walchensees Oberbayern und ihre Beeinflussung durch den Staubetrieb (Limnological investigations in Lake Walchen during 1950-58. II. Investigations on the litoral fauna of the Lake Walchen, Upper Bavaria, and on the influence exerted on it by the management of the dam)
 Physiography of Lake Walchen, a dammed up lake in southern Germany. Lists algae observed, changes of the water-level by the working of the power station: litoral fauna, distribution of food animals for fishes in the biotope of the litoral and sublitoral zone, fauna of the profundal zone.
- MF
61-00335
- Lühmann, M. & H. Mann (1958)**
Arch. FischWiss., 9 (3) : 200-2
 Wiederfänge markierter Elbaale vor der küste Dänemarks (Recaptures of tagged eels off the coast of Denmark)
 Deals with the recapture of two silver eels, *Anguilla anguilla*, off the west coast of Denmark, previously tagged in the River Elbe, 250 km upstream.
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61-00336
- Klust, G. & H. Mann (1958)**
Arch. FischWiss., 9 (3) : 229-43
 Die hemmende Wirkung synthetischer Waschmittel auf den Zelluloseabbau im Wasser (The inhibitory effect of synthetic washing agents on the decomposition of cellulose in water)
 Ill. description of the degree of decomposition tested by determination of the strength of cotton yarns.
- F
61-00337
- Deufel, J. (1958)**
Arch. FischWiss., 9 (3) : 181-6
 Untersuchungen über den Erreger der " Infektiösen Nierenschwellung und Leberdegeneration " der Forellen (Investigations on the virus of the " contaminating kidney swelling and liver degeneration " in trout)
 Artificial contamination of 2-years old *Salmo irideus* to prove the identity of kidney swelling and liver degeneration.

Vásváhelyi, J. (1958)F
61-00338*Arch. FischWiss.*, 9 (3) : 187-99

Beiträge zur Bestimmung der Karpfenartigen mit Hilfe der Schlundknochen (Contribution to the discrimination of cyprinid fishes by means of the pharyngeal bones)

Ill. descriptions of the pharyngeal bones of 31 spp. of cyprinids.

Von Brandt, A. (1958)M
61-00339*Arch. FischWiss.*, 9 (3) : 244-65

Zur Knotenkonstanz von Fischnetzen (On the constancy of knots in fish nets)

Ill. description of two test methods referring to the contorting of the meshes with uneven load of the bars and to the slacking of knots.

Marre, G. (1958)M
61-00340*Arch. FischWiss.*, 9 (3) : 222-9

Rentabilitätsberechnungen von Betrieben der schleswigholsteinischen Kutterfischerei aus den Jahren 1955, 56, 57 (Calculation of the profitability of cutter fisheries in Schleswig-Holstein during 1955 to 57)

Investigates 50 inshore fisheries, incl. 30 shrimp fisheries in the Bay of Lübeck.

Schemainda, R. (1959)M
61-00341*Fischereiforsch.*, 2 (4/5) : 8-12

Temperaturbedingungen und Heringsverteilung auf den Fladen in der Periode von Mai-Oktober 1958 (Temperature conditions and distribution of herring on the Fladen-ground from May to October 1958)

Reports on measurements of temperature close to the ground on the Fladen-ground, North Sea; distribution of herrings based on experimental hauls and temperature of the sub-surface water.

Berner, M. (1959)M
61-00342*Fischereiforsch.*, 2 (4/5) : 5-8

Die Sassnitzer Dorschertträge der Jahre 1950-58 und die Fangaussichten 1959 in ihrer Abhängigkeit von biologischen, hydrographischen und fischereilichen Faktoren (The yields of cod on Sassnitz during 1950-58 and the catch promises in 1959 in their dependence on biological and hydrographical conditions and other factors of fishery)

Landing statistics of *Gadus morhua* in Sassnitz, German Democratic Republic, during 1950-58 and forecasts of catches in the Baltic for 1959.

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Kajewski, G. (1959) M
61-00343
Fischereiforsch., 2 (4/5) : 4-5

Untersuchung der fischereilichen Möglichkeiten an der westafrikanischen Küste (Investigations on the possibilities of fisheries along the coast of West Africa)

Report on the voyage of the fisheries research vessel 'Karl Liebknecht', German Democratic Republic, to the coast of western Africa, between 7 Mar. and 15 May 1959. Problems, route. Short hint on a great abundance of *Sardinella aurita* in the waters south of Taloradi.

Steleanu, A. (1959) F
61-00344
Forsch. Fortschr. dtsh. Wiss., 33 (4) : 97-9

Der Einfluss eines Sees auf das Strahlungsklima seiner Ufer (The influence of a lake on the conditions of irradiation of its shores)

Popular description of investigations carried out in the Lake Müggel, German Democratic Republic. Spectral regions about 350 mμ, 580 mμ, 730 mμ. Methods not described.

Klausewitz, W. (1957) MF
61-00345
Vivaristik, 12

Die Stellung der Systematik in der modernen Ichthyologie (The position of systematics in modern ichthyology)

Gives examples of the interrelationships between systematics, ecology, ethology and physiology; points out problems of the systematics in ichthyology.

Marcus, E. (1959) M
61-00346
Kieler Meeresforsch., 15 (1) : 117-9

Eine neue Gattung der Philinoglossacea (A new genus of the Philinoglossacea)

New gastropod genus discovered in the coral sands of Ghardaqa, Red Sea. Ill. description of *SAPHA amicorum* n.g.n.sp.

Banse, K. (1959) M
61-00347
Kieler Meeresforsch., 15 (1) : 113-6

Fabricia acuseta n.sp., *Fabricia ghardaqa* n.sp. und *Oriopsis armandi* (Claparede) aus dem Roten Meer (Sabellidae, Polychaeta) (*Fabricia acuseta* n.sp., *Fabricia ghardaqa* n.sp. and *Oriopsis armandi*—Claparede—from the Red Sea, Sabellidae, Polychaeta)

Describes new spp.

M

Krauss, W. (1959)

61-00348

Kieler Meeresforsch., 15 (1) : 3-10

Theorie der internen Mitschwingungswellen (The theory of internal cooscillating waves)

CR 60-0757. Concerns especially the question of free internal waves—Fjeldstad's equation—the good results of a forced oscillation, and the effect of tide producing forces on the period of internal tidal waves and on the wavelength.

M

Krey, J. (1959)

61-00349

Kieler Meeresforsch., 15 (1) : 17-28

Über den Gehalt an gelöstem anorganischen Phosphor in der Kieler Förde 1952-1957 (On the contents of dissolved organic phosphorus in the Bay of Kiel, 1952-1957)

Reports on annual changes in the contents of inorganic P-, P as a minimum factor, accumulation of phosphorus.

M

Schwenke, H. (1959)

61-00350

Kieler Meeresforsch., 15 (1) : 34-50

Untersuchungen zur Temperaturresistenz mariner Algen der westlichen Ostsee. 1. Das Resistenzverhalten von Tiefenrotalgen bei ökologischen und nicht ökologischen Temperaturen (Investigations on the temperature resistance of marine algae of the western Baltic. 1. The modes of resistance of deep living red algae under ecological and not ecological temperature conditions)

Checks resistance to temperatures of the Rhodophyceae *Delesseria sanguinea* and *Phycodrys sinuosa* of the Bay of Kiel.

M

Schultz, K. (1959)

61-00351

Allg. FischwirtschaftZtg., 11 (39/40) : 26-30

Neuartige Thunfischangel in der Elektrofischerei (A new tackle for tunas in electro-fishing)

A new tackle developed by Atlas Inc. Mode of action, principles of the diagram of connections.

M

Anon. (1959)

61-00352

Allg. FischwirtschaftZtg., 11 (39/40) : 36

Heckfänger als Forschungsschiffe (Stern trawler as research vessels)

Some technical notes on the new French research vessel 'Thalassia'. Report on Portuguese projects of a research vessel.

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61-00353
- Anon.** (1959)
Allg. FischwirtschaftZtg., 11 (39/40) : 5-6
Die 3. Kopenhagener Fischerei-Messe (The 3rd Copenhagen fisheries fair)
Deals in particular with the motors, engines, nets, fishing boats and novelties shown at the fair.
- G
61-00354
- Quick, H. F.** (1958)
Trans. N. Amer. Wildl. Conf., (23) : 426-42
Estimating the effects of exploitation by life tables
WR (95) : 20.
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61-00355
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Toxicol. appl. Pharmacol., 1 (2) : 203-27
Life table technique in the analysis of response-time data from laboratory experiments on animals
WR (95) : 21.
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61-00356
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Bull. Jap. Soc. Sci. Fish., 23 (12) : 775-81
On purified M-actomyosin of squid muscle
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61-00357
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 A study of the coastal edge.

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Description of the fossil notches.
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Review of present knowledge and description of general features of reefs.
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Les récifs coralliens des îles Radama et de la baie Ramanetaka (Côte nord-ouest de Madagascar), étude géomorphologique et sédimentologique (Coral reefs of the Radama Islands and of the Bay of Ramanetaka, northwest coast of Madagascar, geomorphological and sedimentological study)
Detailed description of coral reefs and related coastal forms and sediments of a small part of the northwestern coast of Madagascar.
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- Menache, M.** (1958)
Mém. Inst. sci. Madagascar, Sér. F, 2 : 201-84
Étude hydrologique de l'estuaire de Fascène à Nosy Bé (Madagascar) durant la saison des pluies 1956 (Hydrological study of the estuary of Fascène at Nosy Bé, Madagascar, during the rainy season of 1956)
Results of observations of the penetration of tides in an estuary and mixing of waters in function of tides.
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Mém. Inst. sci. Madagascar, Sér. F, 2 : 285-342
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Recherches sur la faune interstitielle des sédiments marins et d'eau douce de Madagascar. 10. Deuxième contribution à la faune des nématodes des eaux interstitielles littorales de Madagascar (Research on the interstitial fauna of marine and fresh-water sediments of Madagascar. 10. Second contribution to the fauna of nematods of coastal interstitial waters of Madagascar)
30 spp. are taxonomically described.

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Blanc, M. & E. Postel (1958)

61-00390

Mém. Inst. sci. Madagascar, Sér. F, 2 : 367-76

Sur une petite collection de poissons de la Réunion (On a small collection of fishes of Reunion)

A list of spp. with notes on their distribution.

G

IFIPS (1960)

61-00391

Adliswil-Zurich, mimeo, IFIPS/5, 14 p.

Report on the First Council Meeting—Rome, June 16-17, 1960

Do 60-205 me.

M

Băcescu, M. (1960)

61-00392

Stud. Cercet. biol. (Biol. anim.), 12 (2) : 107-124Citeva animale necunoscute înca Marea Neagră și descrierea unor malacostracei noi (*Elaphognathia monodi* n.sp. și *PONTOTANAIS borceai* n.g.n.sp.) provenind din apele pontice prebosforice (Some as yet unknown animals of the Black Sea; description of two new malacostracans, *Elaphognathia monodi* n.sp. and *PONTOTANAIS borceai* n.g.n.sp., from the Black Sea waters near to the Bosphorus). Fr Ru

M

Caloianu-Iordăchel, M. (1960)

61-00393

Stud. Cercet. biol. (Biol. anim.), 12 (2) : 191-205Structure și funcțiile aparatului digestiv la nisetru (*Acipenser güldenstädti* Brandt) în primele etape ale dezvoltării postembrionare (Structure and functions of digestive apparatus of sturgeon, *Acipenser güldenstädti* Brandt) in the first stages of post-embryonic development). Fr Ru

M

Skolka, H. & A. Petran (1960)

61-00394

Stud. Cercet. biol. (Biol. anim.), 12 (2) : 175-80

Un caz interesant de "colorare" a apei superficiale a Mării Negre (An interesting local phenomenon of "coloration" of the surface waters of the Black Sea). Fr Ru

Brown colour, observed at Roumanian coast in 1958 attributed to protozoan *Mesodinium rubrum*. Description of two new forms of the sp., new to this sea.

F

Bănărescu, F. & M. Bichiceanu (1959)

61-00395

Stud. Cercet. biol. (Biol. anim.), 11 (1) : 59-67Un pește nou pentru fauna R.P.R.: *Leuciscus souffia agassizi* Cuvier et Valenciennes (A new fish for the Roumanian fauna: *Leuciscus souffia agassizi* Cuvier & Valenciennes). Fr RuIll. description of specimens from Săpînța. Distribution of this and other spp. of the subgenus *Telestes*.

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Stud. Cercet. biol. (Biol. anim.), 11 (2) : 149-58
 Notă preliminară asupra hidroiedlor de pe coastele românești ale Mării Negre (Preliminary note on the hydroids of the Roumanian coast of the Black Sea). Fr Ru
 Describes 6 spp., 2 of them new to this area, *Campanularia angulata* and *C. repens*.
- Lupu, D.** (1959) MF
61-00397
Stud. Cercet. biol. (Biol. anim.), 11 (3) : 227-32
 Date comparative asupra anatomiei la: *Nassa (Cyclope) brusinai* și *Nassa (Cyclope) neritea*, gasteropode din Marea Neagră (Comparative data on the anatomy of *Nassa (Cyclope) brusinai* and *Nassa (Cyclope) neritea*, gastropods from the Black Sea). Fr Ru
- Anon.** (1959) MF
61-00398
Stud. Cercet. biol. (Biol. anim.), 11 (3) : 189-93
 Realizări în biologia animală în ultimii 15 ani (Results in animal biology in the past 15 years)
 Summarizes Roumanian work, incl. studies of aquatic spp.
- Elian, L.** (1959) M
61-00399
Stud. Cercet. biol. (Biol. anim.), 11 (3) : 195-204
 Considerații asupra sistematiei și biologiei chaetognatelor care se găsesc în apele românești ale Mării Negre (Considerations on the systematics and biology of chaetognates in Roumanian Black Sea waters). Fr Ru
 Study of specimens of *Sagitta setosa*—confused with *S. bipunctata*—and *S. euxina* and of their parasites *Contracaecum* and *Derogene* sp.
- Pór F.** (1959) M
61-00400
Stud. Cercet. biol. (Biol. anim.), 11 (4) : 347-68
 Harpacticoide noi (Crustacea, Copepoda) din mîlurile Mării Negre (New harpacticoides, Crustacea, Copepoda, from Black Sea beds). Fr Ru
 Describes and ill. spp. of families Cletodiidae and Laophontidae, incl. new spp. of *Haloschizopera* all from *Mytilus* and *Modiolus* beds.
- Feider, Z. et al.** (1958) M
61-00401
Stud. Cercet. biol. (Biol. anim.), 10 (2) : 105-28
 Branchiospinii la stavridul din Marea Neagră *Trachurus mediterraneus* (Steindachner) (The branchial spines in *Trachurus mediterraneus* (Steindachner) of the Black Sea). Fr Ru
 Stadal differences between juveniles and adults, also between sexes. Incl. specimens of giant race; Black Sea samples.

F

Dornescu, G. T., V. Santa & U. Pollingher (1958)

61-00402

Stud. Cercet. biol. (Biol. anim.), 10 (2) : 129-43

Anatomia și histologia rinichiului de crap (Anatomy and histology of the carp kidneys). Fr Ru

Study of *Cyprinus carpio*, comparison with other fishes.

F

Motelică, I. (1958)

61-00403

Stud. Cercet. biol. (Biol. anim.), 10 (4) : 353-61

Contribuții la studiul răspîndirii oligochetelor limicole în R.P.R. (Contribution to the study of distribution of aquatic oligochaetes in the Roumanian People's Republic). Fr Ru

Comparison by families, especially Naïdidae and Tubificidae.

F

Damian, A. (1958)

61-00404

Stud. Cercet. biol. (Biol. anim.), 10 (2) : 177-98

Cercetări hidrobiologice în conducta de apă a orașului Bacurești. Nota II. Cu privire specială asupra copepodelor (Hydrobiological studies of the water supply system of Bucharest City. Note 2. Special consideration of copepods). Fr Ru

F

Bușnita, T. & A. Cristian (1958)

61-00405

Stud. Cercet. biol. (Biol. anim.), 10 (4) : 299-319Variația carasului argintiu (*Carassius auratus gibelio* (Bloch) în apele românești și cauzele care o determină (Variations of goldfish *Carassius auratus gibelio* (Bloch) in Roumanian waters. Determined causes). Fr RuStudy of artificial hybrids of *Carassius* and *Cyprinus carpio*.

M

Băcescu, M. (1958)

61-00406

Stud. Cercet. biol. (Biol. anim.), 10 (4) : 321-34Pycnogonide noi pentru fauna Mării Negre: *Anoplodactylus petiolatus* (Kr.), *A. stocki* n.sp. și *Callipallene brevirostris* (John.) (Pycnogonids new to the fauna of the Black Sea: *Anoplodactylus petiolatus* (Kr.), *A. stocki* n.sp. and *Callipallene brevirostris* (John.)). Fr Ru

F

Yashouv, A. (1960)

61-00407

Tech. Pap. G.F.C.M., 6 (1) : 5 p.

Fish production in the Israeli waters and ways to its increase. Fr

Do 60-053me. Lake Tiberias, barrage lakes and artificial fish ponds are kept distinct from a productivity point of view. In the latter, production of 4,000 kg per hectare may be achieved.

X

Sepic, K. (1960)

61-00408

Tech. Pap. G.F.C.M., 6 (2) : 5 p.

The wooden fish box used in Yugoslavia. Fr

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61-00409
- Fodera, V.** (1960)
Tech. Pap. G.F.C.M., 6 (3) : 86 p.
 La madrague sicilienne de course (The Sicilian tuna trap). En
 Do 60-053me. Describes material required for tuna trap. Outlines preparation of nets, various steps concerning the setting up and the operation of trap.
- M
61-00410
- Sara, R.** (1960)
Tech. Pap. G.F.C.M., 6 (4) : 27 p.
 Observations systématiques sur la présence du thon dans les madragues siciliennees (Systematic observations on the presence of tuna in the Sicilian tuna traps). En
 Do 60-053me. Draws up a theory on the physico-chemical conditions which determine the presence of tuna based on data obtained in the Sicilian tuna traps during fishing period in 1958-1959 and 1960.
- F
61-00411
- Sommani, E.** (1960)
Tech. Pap. G.F.C.M., 6 (5), 7 p.
 Le *Salmo marmoratus* Cuv. dans l'Italie du nord (*Salmo marmoratus* Cuv. in northern Italy). En
 Do 60-053me. Examines present distribution of *S. marmoratus* and infers that presence is connected with nature of ground which forms catchment zone of each stream.
- M
61-00412
- Mužinić, R.** (1960)
Tech. Pap. G.F.C.M., 6 (6) : 12 p.
 On the formation of rings and growth zones on sardine scales (*Sardina pilchardus* Walb.). Fr
 Do 60-053me. Account of observations on formation of rings and new growth zones on scales of young specimens in aquarium tanks. Compares with sardines from natural habitat, whenever possible.
- M
61-00413
- Galea, J. A.** (1960)
Tech. Pap. G.F.C.M., 6 (7) : 7 p.
 The "Kannizzati" fishery. Fr
 Do 60-053me. Describes gear, operation, and costs and returns. Gives landing statistics and compares "Kannizzati" fishery with others.
- M
61-00414
- Gottlieb, E.** (1960)
Tech. Pap. G.F.C.M., 6 (8) : 10 p.
 On the selection of *Upeneus moluccensis* and *Mullus barbatus* by trawl cod-ends in the Israeli fisheries. Fr
 Do 60-053me. Advocates that populations of *Upeneus moluccensis* Bleeker and of *Mullus barbatus* Linné have been over-exploited along the continental shelf of Israel. Recent investigations on the dynamics of these spp. have led to the conclusion that the mesh size of the trawl cod-ends should be changed in order to obtain a better yield.

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Hure, J. (1960)

M
61-00415

Tech. Pap. G.F.C.M., 6 (9) : 3 p.

Contribution à la connaissance de la ponte de la sardine et du maquereau au large de l'Adriatique moyenne (Contribution to the knowledge of the spawning of sardine and mackerel off the middle Adriatic coast). Fr

Do 60-053me. Presents data on appearance and distribution of eggs during January 1959 and 1960, defines spawning area of mackerel and reports the existence of a new, intensive spawning area for sardine.

Lisac, H. (1960)

X
61-00416

Tech. Pap. G.F.C.M., 6 (10) : 12 p.

The liquid ensilage of Mediterranean sardines for animal feeding. Fr

Gamulin, T. & D. Zavodnik (1960)

M
61-00417

Tech. Pap. G.F.C.M., 6 (11) : 3 p.

Spawning of the sardine (*Sardina pilchardus* W.) off the west coast of Istria (northern Adriatic). Fr

Do 60-053me. Gives results with regard to the appearance of sardine eggs in plankton during a period from 1956-1960. States that spawning takes place from November to December, and April to May. Lack of eggs during winter is caused by hydrographical conditions.

Acara, A. (1960)

X
61-00418

Tech. Pap. G.F.C.M., 6 (12) : 2 p.

Some data on semi-preserves in Turkey. Fr

Ben-Yami, M. (1960)

M
61-00419

Tech. Pap. G.F.C.M., 6 (13) : 6 p.

The use of machine-made net webbing for Mediterranean trawl nets. Fr

Do 60-053me. Describes certain methods for simple tailoring of net-sections and of standardizing of machine-made netting. A detailed plan of an Italian-type trawl net, made of shape-cut, machine-made netting, is incl.

Zupanovic, S. (1960)

M
61-00420

Tech. Pap. G.F.C.M., 6 (14) : 6 p.

Influence des facteurs physiques sur les déplacements des poissons (Influence of physical factors on the movements of fishes). En

Do 60-053me. Discusses to what extent the alteration of hydrological facies operate upon the movements of the populations of benthic fishes in the middle Adriatic channels.

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- M
61-00421
- Zupanovic, S.** (1960)
Tech. Pap. G.F.C.M., 6 (15) : 6 p.
 Contribution à la connaissance de la biologie de *Merluccius merluccius* L. dans l'Adriatique moyenne (Contribution to the knowledge of the biology of *Merluccius merluccius* L. in the middle Adriatic). En
- Do 60-053me. Gives observations on large, medium and small hake, in the middle Adriatic.
- MF
61-00422
- Morovic, D.** (1960)
Tech. Pap. G.F.C.M., 6 (16) : 3 p.
 La distribution géographique du genre *Mugil* sur la côte orientale de l'Adriatique (The geographical distribution of the genus *Mugil* on the eastern Adriatic coast). En
- Do 60-053me. Studies distribution of the Mugilidae on the eastern Adriatic coast. Indicates main fishing places, as well as % of spp. studied.
- M
61-00423
- Morovic, D.** (1960)
Tech. Pap. G.F.C.M., 6 (17) : 5 p.
 Contribution à la connaissance de la nutrition du thon rouge (*Thunnus thynnus* L.) dans l'Adriatique, d'après les prises faites à la senne tournante (Contribution to the knowledge of the nutrition of blue-fin tuna, *Thunnus thynnus* L., in the Adriatic from fishes caught with ring nets). En
- Do 60-053me. Gives preliminary data. Proportion of various spp. found in the stomachs has been determined.
- M
61-00424
- Matta, F.** (1960)
Tech. Pap. G.F.C.M., 6 (18) : 5 p.
 Preliminary note on the catching of sole by the "rapido" trawl net. Fr
- Do 60-053me. Compares two populations of soles captured by means of a new type of trawl net.
- X
61-00425
- Lopez Costa, R.** (1960)
Tech. Pap. G.F.C.M., 6 (19) : 15 p.
 Examen technique sanitaire des semi-conserves de poisson en général (Technical and sanitary investigation of semi-preserves and fish preserves in general). En
- M
61-00426
- Oliver, M.** (1960)
Tech. Pap. G.F.C.M., 6 (20) : 3 p.
 Rapport au sujet de la carte de pêche des Baléares et de la zone du cap Creus (Report on the fishing chart of the Balearic Islands and the Cap of Creus zone). En
- Do 60-053me. Comments on the fishing chart of the Balearic Islands and the Cap of Creus zone.

M

Spain. Instituto Español de Oceanografía (1960)

61-00427

Tech. Pap. G.F.C.M., 6 (21) : 9 p.

Variations saisonnières dans la composition de la sardine méditerranéenne et atlantique (Seasonal variations in the composition of the Mediterranean and Atlantic sardine). En

Do 60-053me. Studies seasonal variations of the amount of fat in the Mediterranean and Atlantic sardine, *Sardina pilchardus* Walb.

F

Merlo, S. (1960)

61-00428

Tech. Pap. G.F.C.M., 6 (22) : 8 p.

Nouvelles recherches sur la production de la pêche dans le lac de Garde (New research on the fish production in the Lake of Garda). En

Do 60-053me. Considers recent variations in catches of certain spp. and discusses the possible causes of these variations.

M

Mozzi, C. & A. Duo (1960)

61-00429

Tech. Pap. G.F.C.M., 6 (23) : 11 p.

Observations sur les sardines (*Sardina pilchardus* Walb.) de la haute Adriatique débarquées à Chioggia en 1958 (Observations on the sardines, *Sardina pilchardus* Walb., from the upper Adriatic, landed at Chioggia in 1958). En

Do 60-053me and Co 59-0964. Concerns particularly study of length, growth and average number of vertebrae.

M

Alfirevic, S. (1960)

61-00430

Tech. Pap. G.F.C.M., 6 (24) : 9 p.

Quelques données sur la carte géologique des fond chalutables dans les chenaux de l'Adriatique moyenne (Some data on the geological chart of the trawling ground in the middle Atlantic channels). En

Do 60-053me. Gives results of study of sediments found on the trawling grounds; summarizes sedimental data obtained.

F

Maldura, C. (1960)

61-00431

Tech. Pap. G.F.C.M., 6 (25) : 6 p.

Recherches préliminaires sur l'action de l'alkyl-aryl-sulfonate sur la truite arc-en-ciel (*Salmo irideus*) (Preliminary research on the action of sulfonate-alkyl-aryl on *Salmo irideus*). En

Do 60-053me. Reports preliminary experiments and enumerates the conclusions he has been able to reach.

F

Sarig, S. (1960)

61-00432

Tech. Pap. G.F.C.M., 6 (26) : 10 p.

Carp disease, their prevention and treatment. Fr

Do 60-053me. Describes development of various fish diseases under intensive fish culture regime in Israel. Important diseases of carp are detailed as to extent of damage and methods of control. Presents list of publications on this subject.

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- Demir, M. & N. Demir** (1960) M
61-00433
Tech. Pap. G.F.C.M., 6 (27) : 7 p.
 Contribution to the knowledge of the eggs of the common bonito (*Sarda sarda* Bloch). Fr
- Do 60-053me. Account of research on eggs obtained from gonads of a female in June 1956 and taken from plankton of the Black Sea in June 1957, and of the Sea of Marmara in June 1959. Ill.
- Demir, M.** (1960) M
61-00434
Tech. Pap. G.F.C.M., 6 (28) : 2 p.
 Note on *Germo alalunga* Gml. and *Euthynnus alletteratus* Raf. in the Sea of Marmara. Fr
- Do 60-053me. States that the fish considered *Germo alalunga* is in fact *Euthynnus alletteratus*.
- Demir, M. & N. Demir** (1960) M
61-00435
Tech. Pap. G.F.C.M., 6 (29) : 2 p.
 Note on the sardine (*Clupea pilchardus* Walb.) and its reproduction in the Sea of Marmara. Fr
- Do 60-053me. Account of observations on sardine populations in the Dardanelles in September and October 1959; spawning areas and conditions of reproduction.
- Aksiray, F.** (1960) F
61-00436
Tech. Pap. G.F.C.M., 6 (30) : 4 p.
 Fish production in Turkish inland waters. Fr
- Do 60-053me. Calculates production capacities of lakes according to unofficial statistics and estimates minimum production that could be obtained through improvement and preservation.
- De Angelis, R.** (1960) MF
61-00437
Tech. Pap. G.F.C.M., 6 (31) : 5 p.
 Production de poisson dans les eaux intérieures italiennes (Fish production in the Italian inland waters). En
- Do 60-053me. Gives information on the fish production of Italian streams, lakes and lagoons, and on its distribution.
- Grubisic, F.** (1960) M
61-00438
Tech. Pap. G.F.C.M., 6 (32) : 4 p.
 Length of purse-seine and size of sardine schools. En
- Do 60-053me. Deals with the problem of size of sardine schools, as the most important element in determination of purse-seine length.

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61-00439
- Buljan, M. (1960)**
Tech. Pap. G.F.C.M., 6 (33) : 11 p.
 Some results of fertilization experiments carried out in Yugoslav marine bays. Fr
- Do 60-053me. A short survey of theoretical conditions providing the basis of the new method of fertilization of marine bays. Gives results of fertilization of some marine bays lying on the Yugoslav coast of the Adriatic; advocates that the method is feasible and can be applied for the purpose of commercial exploitation.
- M
61-00440
- Vucetic, T. (1960)**
Tech. Pap. G.F.C.M., 6 (34) : 2 p.
 Abundance of zooplankton compared with sardine catch in the central part of the eastern Adriatic. Fr
- Do 60-053me. Account of observations from 1951 to 1960. Presents data on abundance of zooplankton and on sardine catches.
- M
61-00441
- Italy. Ministero della Marina Mercantile. Direzione Generale della Pesca e del Demanio Marittimo (1960)**
Tech. Pap. G.F.C.M., 6 (35) : 3 p.
 Comportement du chalut pour la pêche des soles (Behaviour of the trawl net for the catching of soles). En
- Do 60-053me and Ab 61-00460.
- M
61-00442
- Demirhindi, U. (1960)**
Tech. Pap. G.F.C.M., 6 (36) : 9 p.
 Nutrition of the sardine (*Sardina pilchardus* Walb.). Fr
- Do 60-053me. Studies correlation between stomach contents of adult *Sardina pilchardus* Walb. and plankton collected on the fishing grounds. Lists identified phyto and zooplanktonic organisms.
- M
61-00443
- Elroi, D. & B. Komarovsky (1960)**
Tech. Pap. G.F.C.M., 6 (37) : 10 p.
 On the possible use of the ascidian *Ciona intestinalis* from fouling as a source of vanadium, cellulose and other products. Fr
- Do 60-053me. Discusses possible uses of these products.
- M
61-00444
- Farina, L. & F. Bourgois (1960)**
Tech. Pap. G.F.C.M., 6 (38) : 21 p.
 L'amélioration des techniques de la pêche au feu (Improvement of the fishing with lights techniques). En
- Do 60-053me. Describes results of experiments on fishing with lights, incl. underwater fishing lamps for fish attraction and echo-sounding for fish detection.

REFERENCES

- M
61-00445
- Ben Tuvia, A.** (1960)
Tech. Pap. G.F.C.M., 6 (39) : 6 p.
 Catch per unit of effort of *Sardinella aurita* along the coast of Israel during the years 1950-1959. Fr
- Do 60-053me. Calculates catch per unit of effort for period 1950-1959 as the average catch taken by one light fishing unit during one successful fishing night. Presents year-to-year and month-to-month fluctuations.
- M
61-00446
- Chirardelli, E.** (1960)
Tech. Pap. G.F.C.M., 6 (40) : 6 p.
 La pêche des mollusques céphalopodes et leur importance biologique et économique (Fishing of cephalopodes molluscs and their biological and economic importance). En
- Do 60-053me. Describes main gear types and discusses the incidence on the stock.
- MF
61-00447
- White, J. H., A. Abramov & B. Komarovsky** (1960)
Tech. Pap. G.F.C.M., 6 (41) : 2 p.
 Problems in the use of plastics in fishing. Fr
- Do 60-053me. Describes problems arising from the use of plastic nets and accessories; states that local solutions have been found for some, while others await further investigation.
- M
61-00448
- Komarovsky, B. & T. Edelstein** (1960)
Tech. Pap. G.F.C.M., 6 (42) : 5 p.
 Preliminary survey of the microflora and microfauna occurring on experimental anti-fouling panels in the Kishon Harbour. Fr
- Do 60-053me. Account of survey of main groups of microscopic animals and plants occurring on experimental panels. Considers the neritic and sessile character of some of these organisms. Lists organisms.
- M
61-00449
- Maurin, C.** (1960)
Tech. Pap. G.F.C.M., 6 (43) : 15 p.
 Campagne du 'Président Theodore Tissier' sur les côtes d'Algérie, Novembre 1959-Février 1960 (Campaign of the 'President Theodore Tissier' off the Algerian coasts, November 1959-February 1960). En
- Do 60-053me. Studies the trawl fishing off Algeria and in the adjacent waters from the western Moroccan coast and the Cape of St. Vincent to the Straights of Sicily. Gives position of trawling grounds beyond the 300 m line, lists various spp. and indicates quantities
- M
61-00450
- Scaccini, A.** (1960)*
Tech. Pap. G.F.C.M., 6 (44)
 Sur le phototropisme des thons (On the phototropism of tunas)

- M
61-00451
- Seaccini, A. (1960)***
Tech. Pap. G.F.C.M., 6 (45)
 Considérations sur la distribution et les déplacements des thons en Adriatique (Consideration on the distribution and movement of tunas in the Adriatic)
- MF
61-00452
- Gomez Baeza, J. (1960)**
Tech. Pap. G.F.C.M., 6 (46) : 11 p.
 L'emballage du poisson frais en Espagne et son utilisation possible comme unité de mesure pour une statistique de production de rendement et de consommation (The possibilities of using fish packing cases as a standard unit for the compilation of statistics on production, output and consumption in Spain). En
- Do 60-053me. Examines possibility of using fish packing cases as a standard unit for compiling statistics on production and on output per fishing unit or fishing zone. Concludes that a general standardization is necessary.
- M
61-00453
- Atli, M. & F. Erman (1960)**
Tech. Pap. G.F.C.M., 6 (47) : 2 p.
 On the biology of sardines (*Sardina pilchardus* Walb.). Fr
- Do 60-053me. Preliminary report giving an account of study on biology of sardines, with special reference to their age composition, growth rate, gonad development, spawning period, and stock fluctuation, based on the samples collected mainly at Canakkale, from Feb. 1959 to Jul. 1960.
- M
61-00454
- Bas, C. (1960)**
Tech. Pap. G.F.C.M., 6 (48) : 2 p.
 La carte de pêche de la Costa-Brava (The fishing chart of Costa-Brava). En
- Do 60-053me. Gives data on *Aristeus antennatus*, *Merlangus poutassou* and *Aristeomorpha foliacea*.
- F
61-00455
- Volk, S. & D. Vesel (1960)**
Tech. Pap. G.F.C.M., 6 (49) : 4 p.
 La truite marbrée (*Salmo marmoratus* Cuv.) et sa reproduction artificielle (The marble trout *Salmo marmoratus* Cuv., and its artificial reproduction). En
- Do 60-053me. Account of practical results obtained in Yugoslavia.
- MF
61-00456
- Arena, P. (1960)**
Tech. Pap. G.F.C.M., 6 (50) : 1 p.
 Aperçu préliminaire sur le " Stagnone " de Marsala et ses possibilités pour l'exploitation et la pêche (Brief account of the " Stagnone " of Marsala and its possibilities for fisheries development). En
- Do 60-053me. Gives a brief account of the hydrobiological conditions and explains the possibilities of improving some of the conditions in this basin, and its adequate utilisation for pond culture and fisheries.

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- F
61-00457
- Aksiray, F.** (1960)
Tech. Pap. G.F.C.M., 6 (51) : 7 p.
About sudak (*Lucioperca sandra* Cuv. et Val.) introduced into some of the lakes of Turkey. Fr
- Do 60-053me. Account of introduction of this sp. into Mermere and Eğridir lakes and its improving effect on yearly catch of other commercially important spp.
- MF
61-00458
- GFCM** (1960)
Rome, FAO
Working documents—6th session. En En Fr
- Do 60-053me. Contains working papers of Marine resources, Production, Utilization, Inland waters and Economics and statistics committees. Documents contain information collected by special rapporteurs and by Secretariat following the recommendations of executive committee. Under miscellaneous papers incl. Report by FAO Fisheries Division, Biology Branch, to the GFCM on activities 1959/60.
- MF
61-00459
- GFCM** (1960)
Rome, FAO
Agenda and notes—6th session. En Fr
- Do 60-053me. Incl. reports of the Executive Committee and Secretariat, on budget and notes, on rules of procedure, membership, liaison with other organizations, organization of work of the Council and its committees.
- M
61-00460
- Bini, G.** (Ed.) (n.d. 1960)
Mem. Dir. gen. Pesca, Roma, (2) : 32 p.
Ricerche sul comportamento in mare delle reti a strascico per sogliole (Behaviour of the trawl net for the catching of soles)
- Account of underwater observations on the behaviour of sole trawl; gives design of perfected gear.
- MF
61-00461
- Inter-American Conference on Agriculture, 5th, August 8-20, 1960, Mexico, D.F.** (1960)
OEA/Ser. K/II.5.1
Final act . . . En Es
- Do 60-138me. Contains chapter and resolution on importance of fisheries as food source; establishment of regional fishery research institute in Panama; improvement of fishery administration.
- MF
61-00462
- New South Wales. Laws, Statutes, etc.** (1960)
Govt Gaz., N.S.W., (75) : 1955.
Proclamation made under the fisheries and oyster farms act, 1935-1957 relative to the entrance waters of Tweed River, County of Rous.—18 May 1960.
- Prohibits the taking of fish by means of spears, spear guns and similar devices from 1 Sep. 1960 to 31 Aug. 1965.

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- MF
61-00463
- New South Wales. Laws, Statutes, etc. (1960)**
Govt Gaz., N.S.W., (66) : 1662
 Amendment of the regulations made under the fisheries and oyster farms act, 1935-1957.—3 June 1960
- Insertion of a new regulation on grading of prawns.
- MF
61-00464
- Queensland. Laws, Statutes, etc. (1960)**
Qd Govt Gaz., (43) : 934.
 Order under the fisheries acts, 1957-1959.—2 June 1960
- Prohibits from and after the date of publication in the Gazette the taking of any kind of fish in the waters described in the schedule thereto.
- MF
61-00465
- Western Australia. Laws, Statutes, etc. (1960)**
Govt Gaz. W. Aust., (63) : 2196
 Notice under the fisheries act, 1905-1956. F.D. 167/53.—24 June 1960
- Ad 60-9765. Lays down conditions in respect of fishing licences. Repeals notice F.D. 167/53 of 10 May 1960 under same act.
- MF
61-00466
- Western Australia. Laws, Statutes, etc. (1960)**
Govt. Gaz. W. Aust., (57) : 2022
 Proclamation under the fisheries act, 1905-1956. F.D. 166/21, Ex. Co. No. 1235. 30 June 1960
- Prohibits all persons from taking any fish by means of fishing nets in any of the portions of Western Australian waters specified in the schedule thereto from 1 Jul. 1960, until 30 Jun. 1965.
- MF
61-00467
- Western Australia. Laws, Statutes, etc. (1960)**
Govt Gaz. W. Aust., (60) : 2117
 Proclamation under the fisheries act, 1905-1956. F.D. 54/45, Ex. Co. No. 1296. 7 July 1960
- All portions of Western Australian waters defined in the schedule shall be closed against the use of fishing nets other than hand scoop nets for a period of five years as from date of publication of this proclamation in the gazette.
- M
61-00468
- Belgium. Laws, Statutes, etc. (1960)**
Monit. belge, (109) : 3364-5
 Arrêté royal du 21 mars 1960 réglant l'octroi de primes aux élèves des écoles de pêche ayant subi avec succès l'examen d'apprenti-mousse à la pêche (Royal order governing the grant of bonuses to students of fisheries schools having successfully passed the fishery ship's apprentice examination. 21 March 1960)
- With a view to encouraging young fishermen to pass examination provided for in royal order of 21 May 1958.

REFERENCES

- M
61-00469
- Belgium. Laws, Statutes, etc. (1960)**
Monit. belge, (99) : 3051
 Arrêté ministériel du 1er avril 1960 complétant l'arrêté du 15 janvier 1959, instituant une commission de recherche scientifique pour la pêche maritime (Ministerial order amplifying the order of 15 January 1959 establishing a Scientific Research Commission for Maritime Fisheries.—1 April 1960)
- Ad 59-8365. Appoints members of the commission established under ministerial order of 15 Jan. 1959.
- MF
61-00470
- Canada. Laws, Statutes, etc. (1959)**
Can. Gazette (II), (1) : 43
 Statutory orders and regulations 1960-14. Order in council P.C. 1959-1622 amending the New Brunswick fishery regulations pursuant to the fisheries act.—22 December 1959
- "Sport fish" incl. salmon, trout and black bass. Striped bass may be retained and marketed when unintentionally caught in nets, traps or weirs set for the catching of fish other than striped bass. Every person who, while fishing, catches a black bass measuring less than 9 inches in length from the tip of the nose to the end of the tail shall immediately return it to the water.
- MF
61-00471
- Canada. Laws, Statutes, etc. (1959)**
Can. Gazette (II), (1) : 44
 Décrets, ordonnances et règlements statutaires 1960-14. Décret C.P. 1959-1622 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—22 décembre 1959 (Statutory orders and regulations 1960-14. Order in council P.C. 1959-1622 amending the New Brunswick fishery regulations pursuant to the fisheries act.—22 December 1959)
- Fr* 61-00470.
- M
61-00472
- Canada. Laws, Statutes, etc. (1959)**
Can. Gazette (II), (2) : 148
 SOR/60-65. Herring fishing order made under the fisheries act.—30 December 1959
- Ad 60-4482. Pursuant to section 29 of the fisheries act the Minister of Fisheries hereby withdraws from the exception therefrom provided by ministerial order dated October 10, 1936, the additional quota of 3000 tons of herring authorized to be caught during the 1959-60 season in the lower east coast of Vancouver Island, sub-district by order in Council P.C. 1959-1511 of November 26, 1959, so that such herring are subject to the general prohibition contained in section 29 of the fisheries act.
- M
61-00473
- Canada, Laws, Statutes, etc. (1959)**
Can. Gazette (II), (2) : 154
 DORS/60-45. Ordonnance sur la pêche du hareng en vertu de la loi sur les pêcheries.—30 décembre 1959 (SOR/60-45. Herring fish order made under the Fisheries act.—30 December 1959)

MF

Canada. Laws, Statutes, etc. (1960)

61-00474

Can. Gazette (II), (2) : 114

SCR/60-36. Order in Council P.C. 1960-47 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—14 January 1960

The permit number or a code designating that number shall be embossed on one end of each can of fish or shellfish packed in the cannery for which the permit number has been issued.

MF

Canada. Laws, Statutes, etc. (1960)

61-00475

Can. Gazette (II), (2) : 117

DORS/60-36. Décret C.P. 1960-47 modifiant le règlement visant l'inspection des conserveries et des conserves de poisson, mollusques et crustacés en vertu de la loi sur les viandes et conserves alimentaires.—14 janvier 1960 (SOR/60-36. Order in Council P.C. 1960-47 amending the canned fish and shellfish and cannery inspection regulations made under the meat and canned foods act.—14 January 1960)

Fr 61-00474.

M

Canada. Laws, Statutes, etc. (1960)

61-00476

Can. Gazette (II), (3) : 165-8

SCR/60-53. Order in Council P.C. 1960-100 relating to tariff treatment—duties reduced on certain goods pursuant to the customs act.—28 January 1960

Concerns *inter alia* frozen tuna loins for use in the manufacture of canned tuna.

M

Canada. Laws, Statutes, etc. (1960)

61-00477

Can. Gazette (II), (3) : 169-72

DORS/60-53. Décret C.P. 1960-100 relatif au régime tarifaire—droits réduits à l'égard de certaines marchandises en vertu de la loi sur les douanes.—28 janvier 1960 (SOR/60-53. Order in Council P.C. 1960-100 relating to tariff treatment—duties reduced on certain goods pursuant to the customs act.—28 January 1960)

Fr 61-00476.

M

Canada. Laws, Statutes, etc. (1960)

61-00478

Can. Gazette (II), (3) : 169

SOR/60-54. Order in Council P.C. 1960-101 amending the whaling regulations pursuant to the whaling convention act. 28 January 1960

Until 24 February 1965 no person shall kill or attempt to kill any blue whale in the North Atlantic Ocean.

REFERENCES

- M
61-00479
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (3) : 173
 DORS/60-54. Décret C.P. 1960-101 modifiant le règlement de chasse à la baleine en vertu de la loi sur la convention concernant la chasse à la baleine—28 janvier 1960 (SOR/60-54. Order in Council P.C. 1960-101 amending the whaling regulations pursuant to the whaling convention act. 28 January 1960)
- Fr* 61-00478.
- M
61-00480
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 203
 SOR/60-67. Order in Council P.C. 1960-135 amending the fish inspection regulations made under the fish inspection act.—4 February 1960
- Revokes provision relative to way of packing herring.
- M
61-00481
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 207
 DORS/60-67. Décret C.P. 1960-135 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson.—4 février 1960 (SOR/60-67. Order in Council P.C. 1960-135 amending the fish inspection regulations made under the fish inspection act.—4 February 1960)
- Fr* 61-00430.
- M
61-00482
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 210-9
 SOR/60-70. Order in Council P.C. 1960-166 relative to oil pollution prevention regulations made under the Canada shipping act.—11 February 1960
- Replaces the oil pollution prevention regulations order in Council P.C. 1957-392 of 21 March, 1957, as amended.
- M
61-00483
- Canada. Laws, Statutes, etc. (1960)**
Can. Gazette (II), (4) : 215-24
 DORS/60-70. Décret C.P. 1960-166 relatif au règlement sur la prévention de la pollution par les hydrocarbures, en vertu de la loi sur la marine marchande du Canada.—11 février 1960 (SOR/60-70. Order in Council P.C. 1960-166 relative to oil pollution prevention regulations made under the Canada shipping act.—11 February 1960)
- Fr* 61-00482.

M

Canada. Laws, Statutes, etc. (1960)

61-00484

Can. Gazette (II), (5) : 279

SOR/60-93. Order in Council P.C. 1960-219 amending the coastal fisheries protection regulations, made under the coastal fisheries protection act. 25 February 1960

Subject to the customs laws of Canada and with the permission of the Minister of Fisheries, fish on board a disabled foreign fishing vessel entering any port on the Atlantic coast for repairs may be unloaded, landed or trans-shipped.

M

Canada. Laws, Statutes, etc. (1960)

61-00485

Can. Gazette (II), (5) : 287

DORS/1960-93. Décret C.P. 1960-219 modifiant le règlement sur las protection des pêcheries côtières en vertu de la loi sur la protection de pêcheries côtières.—25 février 1960 (SOR/60-93. Order in Council P.C. 1960-219 amending the coastal fisheries protection regulations, made under the coastal fisheries protection act.—25 February 1960)

Fr 61-00484.

M

Canada. Laws, Statutes, etc. (1960)

61-00486

Can. Gazette (II), (5) : 280

SOR/60-94. Order in Council P.C. 1960-220 amending the British Columbia fishery regulations, made under the fisheries act.—25 February 1960

No person shall fish for or take clams of any variety from Seal Island in the vicinity of Comox until the 1st day of January 1965, except for experimental purposes with the consent of the Minister of Recreation and Conservation for British Columbia.

M

Canada. Laws, Statutes, etc. (1960)

61-00487

Can. Gazette (II), (5) : 288

DORS/60-94. Décret C.P. 1960-220 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—25 février 1960 (SOR/60-94. Order in Council P.C. 1960-220 amending the British Columbia fishery regulations, made under the fisheries act.—25 February 1960)

Fr 61-00486.

MF

Canada. Laws, Statutes, etc. (1960)

61-00488

Can. Gazette (II), (6) : 289-92

SOR/60-99. Order in Council P.C. 1960-263 amending the Saskatchewan fishery regulations made under the fisheries act.—3 March 1960

Amendments in respect of bag limits, closed seasons, prohibited methods of taking fish, etc.

REFERENCES

MF
61-00489

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 295-8

DORS/60-99. Décret C.P. 1960-263 modifiant le règlement de pêche de la Saskatchewan en vertu de la loi sur les pêcheries.—3 mars 1960 (SOR/60-99. Order in Council P.C. 1960-263 amending the Saskatchewan fishery regulations made under the fisheries act.—3 March 1960)

Fr 61-00488.

MF
61-00490

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 302-17

SOR/60-105. Order in Council P.C. 1960-299 amending the Ontario fishery regulations pursuant to the fisheries act.—10 March 1960

Amendments in respect of bag limits, closed seasons, prohibited methods of taking fish, etc.

MF
61-00491

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 309-25

DORS/60-105. Décret C.P. 1960-299 modifiant le règlement de pêche de l'Ontario en vertu de la loi sur les pêcheries.—10 mars 1960 (SOR/60-105 Order in Council P.C. 1960-299 amending the Ontario fishery regulations pursuant to the fisheries act.—10 March 1960)

Fr 61-00490.

M
61-00492

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 329

SOR/60-114. Order in Council P.C. 1960-300 relative to distribution of grant 1959-1960, pursuant to the deep sea fisheries act.—10 March 1960

Amount of grants with respect to vessels and to boats.

M
61-00493

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (6) : 337

DORS/60-114. Décret C.P. 1960-300 relatif à la distribution de la subvention pour l'année 1959-1960 en vertu de la loi sur les pêches maritimes.—10 mars 1960 (SOR/60-114. Order in Council P.C. 1960-300 relative to distribution of grant 1959-1960, pursuant to the deep sea fisheries act.—10 March 1960)

Fr 61-00492.

M
61-00494

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (7) : 332-3

SOR/60-116. Order in Council P.C. 1960-337 amending the Pacific halibut fisheries regulations, pursuant to the northern Pacific halibut fishery convention act.—17 March 1960

Relative to the halibut fishing season and to permits for the retention and landing of halibut caught.

M

Canada. Laws, Statutes, etc. (1960)

61-00495

Can. Gazette (II), (7) : 340-1

DORS/60-116. Décret C.P. 1960-337 modifiant le règlement sur la pêche du flétan dans le Pacifique en vertu de la loi sur la convention relative aux pêcheries de flétan du Pacifique-Nord.—17 mars 1960 (SOR/60-116. Order in Council P.C. 1960-337 amending the Pacific halibut fisheries regulations, pursuant to the northern Pacific halibut fishery convention act.—17 March 1960)

Fr 61-00494.

MF

Canada. Laws, Statutes, etc. (1960)

61-00496

Can. Gazette (II), (7) : 421-3

SCR/60-141. Order in Council P.C. 1960-412 amending the lobster fishery regulations pursuant to the fisheries act.—31 March 1960

No person shall fish for lobster by hand or by means of any implement other than regular lobster traps. New description of the lobster fishing districts No. 6B and No. 7B.

MF

Canada. Laws, Statutes, etc. (1960)

61-00497

Can. Gazette (II), (7) : 430-2

DORS/60-141. Décret C.P. 1960-412 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—31 mars 1960 (SOR/60-141. Order in Council P.C. 1960-412 amending the lobster fishery regulations pursuant to the fisheries act.—31 March 1960)

Fr 61-00496.

F

Canada. Laws, Statutes, etc. (1960)

61-00498

Can. Gazette (II), (7) : 424-5

SOR/60-142. Order in Council P.C. 1960-413 amending the Alberta fishery regulations pursuant to the fisheries act.—31 March 1960

Concerns the quantity of fish that may be caught by angling.

F

Canada. Laws, Statutes, etc. (1960)

61-00499

Can. Gazette (II), (7) : 433-4

DORS/60-142. Décret C.P. 1960-413 modifiant le règlement de pêche de l'Alberta en vertu de la loi sur les pêcheries.—31 mars 1960 (SOR/60-142. Order in Council P.C. 1960-413 amending the Alberta fishery regulations pursuant to the fisheries act.—31 March 1960)

Fr 61-00498.

REFERENCES

- Canada. Laws, Statutes, etc.** (1960) M
61-00500
Can. Gazette (II), (8) : 461
 SOR/60-166. Order in Council P.C. 1960-493 amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—13 April 1960

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VOLUME 5—MEETINGS: CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-001me to 61-042me

- UN.** 21/8/61 G
61-001me
Rome, Italy. 11 days
Conference on new sources of energy
- American Society of Plant Physiologists/Botanical Society of America, Physiological Section.** 28/8/60 F
61-002me
Stillwater, Okla., U.S.A. 4 days
Plant physiology meeting
- FAO.** 18/9/61 M
61-003me
Tokyo, Japan. 13 days
Research vessel forum
- IAEA.** 17/4/61 M
61-004me
Vienna, Austria. 6 days
Amendment to 60-337me. 1st Meeting of panel on the monitoring of waste disposal into the sea
- Fisheries Council of Canada.** 10/4/61 MF
61-005me
Toronto, Ontario, Canada. 3 days
Sixteenth annual meeting

Agenda incl. discussions on Rome fish meal meeting results, the EFTA and Canadian fishery exports, freshwater fisheries research.
- Challenger Society.** 26/4/61 M
61-006me
London, U.K. 1 day
Annual general meeting and 210th Scientific meeting

Mr. R. L. Coet will read paper on "The movement of Brake Bank, south of Ramsgate".
- USPHS, Taft Sanitary Engineering Center.** Jan. 61 F
61-007me
Cincinnati, Ohio.

Courses on "Biooxidation of industrial wastes" and "Recent developments in water bacteriology".

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OEEC. 1961 F
61-008me
Senior visiting fellowship, awarded to Prof. F. J. Trembley, Lehigh University, U.S.A., for ecological stream studies in England

Pacific Tuna Conference. 14/8/61 M
61-009me
Honolulu, Hawaii, U.S.A. 6 days.
Amendment to 60-249me. Pacific tuna biological conference

Special meeting in conjunction with 60-248me.

UNESCO. 19/10/61 M
61-010me
Paris, France. 9 days.
International Oceanographic Commission—1st meeting.

Comitato Nazionale per l'Energia Nucleare (Italia). 1/6/61 M
61-011me
Palermo, Italy. 1 day
Giornata nucleare. Contaminazione radioattiva dei mari. [Nuclear day. Radioactive contamination of the sea]

Symposium in connection with the Mediterranean Fair.

Department of Marine Science of College of William and Mary/Virginia Fisheries Laboratory. Summer 1961 M
61-012me
Graduate courses in marine science

Netherlands Universities Foundation for International Cooperation, Technological University of Delft/OEEC/WHO F
61-013me
23/10/61–17/7/62
Delft, Netherlands.
European course in sanitary engineering

The course will cover: The supply of domestic and industrial water; Treatment and disposal of liquid and solid wastes; and in special cases another combination of subjects. The subjects taught will be the following: (a) Introductory subjects: Interaction between man and his environment; Principles of hygiene; Review of sanitary engineering. (b) Basic subjects: Tuition in general chemistry and physics; Principles of micro- and hydrobiology; Practical laboratory course in chemistry and microbiology; Chemistry and microbiology of water and sewage; Applied statistics; Hydrology; Special chapter of hydraulics for the sanitary engineer. (c) Engineering subjects: Water and sewage treatment; Ground-water recovery and recharge; Pumping stations and pipe lines; Design of networks; Water supply; Sewerage and sewage works; Disposal and utilization of town refuse; Special subjects; Management of water resources.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 13/2/61 G
61-014me
Chicago, Ill., U.S.A. 4 days
Semiannual meeting

MEETINGS

- | | |
|--|----------------|
| INPFC, U.S. Section. 27/2/61
Juneau, Alaska. 3 days
Meeting | M
61-015me |
| Pacific Fisheries Technologists. 19/3/61
Bellingham, Wash., U.S.A. 4 days
Annual meeting | M
61-016me |
| American Society of Bacteriologists. 23/8/61
Chicago, Ill., U.S.A. 5 days
Annual meeting | G
61-017me |
| American Society of Limnologists and Oceanographers. 27/8/61
Lafayette, Ind., U.S.A. 5 days
Meeting | MF
61-018me |
| Pacific Tuna Conference. 25/9/61
Lake Arrowhead, Calif., U.S.A. 3 days
12th Pacific tuna biologists conference | M
61-019me |
| ACC. 14/3/61
Rome, Italy. 3 days
Meeting of sub-committee on oceanography | M
61-020me |
| Canadian Institute of Food Technology. 24/5/61
Montreal, Canada. 2 days
Meeting | MF
61-021me |
| ECE. 12/6/61
Geneva, Switzerland. 5 days
Meeting of working party on standardization of perishable foodstuffs | MF
61-022me |
| ECE. 10/7/61
Geneva, Switzerland. 5 days
Conference of European statisticians | MF
61-023me |
| International Institute of Refrigeration. 10/5/61
Budapest, Hungary. 4 days
Meeting of Commission 5 | G
61-024me |
| Karolinska Institutet. 31/7/61
Stockholm, Sweden. 5 days
International congress of biophysics incl. session on radiation biophysics | G
61-025me |

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- American Seafood Distributors' Association.** 15/4/61 M
61-026me
Washington, D.C., U.S.A. 1 day
Annual meeting
- Sponsor Unknown.** 17/4/61 F
61-027me
Tucson, Arizona, U.S.A. 3 days
National watershed congress
- Sponsor Unknown.** 17/4/61 M
61-028me
Brussels, Belgium. 14 days
Diplomatic Conference on the law of the sea
- National Academy of Sciences/National Research Council.** 27/4/61 M
61-029me
Washington, D.C., U.S.A. 2 days
Meeting of the committee on oceanography
- FAO.** 15/5/61 MF
61-030me
Dakar, Senegal. 6 days
Preparatory meeting on the creation of a consultative fisheries body in West Africa
- Shrimp Association of the Americas.** 15/6/61 M
61-031me
Mexico City, Mexico. 3 days
10th Annual meeting
- Institute of Biology (U.K.).** 27/10/61 MF
61-032me
London, U.K. 2 days
Symposium on "Exploitation of the world's fauna for food"
- Second day devoted to the "Sea". Potential production, new exploitation methods, conservation, fresh- and brackish-water pond culture, culture of molluscs and crustacea, farming the seas, control of pests.
- ECAFE.** 22/2/61 F
61-033me
Saigon, Vietnam. 6 days
12th Session of the Committee on coordination of investigation of the Lower Mekong Basin
- AIBS.** 27/8/61 MF
61-034me
Lafayette, Ind., U.S.A. 5 days
Annual joint meeting of biological societies

MEETINGS

- | | |
|--|----------------|
| American Society of Ichthyologists and Herpetologists. 31/3/61 | MF
61-035me |
| Austin, Texas, U.S.A. 3 days | |
| Meeting | |
| Amendment to 60-190me. | |
| WMO. May/61 | F
61-036me |
| Washington, D.C. | |
| 1st Session of commission for hydrological meteorology | |
| Scottish Field Studies Association. 6/5/61 | M
61-037me |
| Isle of Raasay, U.K. 8 days | |
| Course in marine biology | |
| Scottish Field Studies Association. 6/9/61 | M
61-038me |
| Isle of Raasay, U.K. 8 days | |
| Course in marine biology | |
| Scottish Field Studies Association. 20/5/61 | M
61-039me |
| Isle of Great Cumbrae, U.K. 8 days | |
| Course in marine biology | |
| UN. 13/3/61 | MF
61-040me |
| Geneva, Switzerland | |
| Scientific committee on the effects of atomic radiation (UNSCEAR)— | |
| 9th Session | |
| Agenda incl. technical discussion of exposure by disposal of radioactive wastes. | |
| University of North Carolina. Summer/61 | MF
61-041me |
| Chapel Hill, N.C., U.S.A. | |
| New graduate course in algology and plant cytology | |
| WMO. 11/5/61 | M
61-042me |
| Geneva, Switzerland. 3 weeks | |
| 13th Session of the executive committee | |

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60-8043	<i>En</i> 61-00368	61-00370	<i>En</i> 61-00371
60-8809	Ad 61-001ad		Re 61-00372
60-8810	Ad 61-002ad	61-00372	<i>En</i> 61-00373
60-8973	Ad 61-048ad	61-00374	<i>En</i> 61-00375
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60-9083	Ad 61-045ad	61-00460	Ab 61-00441
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60-9144	Ad 61-031ad	61-00474	<i>Fr</i> 61-00475
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	Do 61-00409 to	61-00490	<i>Fr</i> 61-00491
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	Do 61-00452 to	61-00544	Co 61-00545
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60-138me	Do 61-00461	61-00546	Co 61-00547
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VOLUME 5—ERRATA

61-011er to 61-013er

Saetersdal, G. (1959) *should read*

Midttun, L. & G. Saetersdal (1959)

61-011er
(60-2922)

Senckenbergiana, 39 ($\frac{1}{2}$) : 57-84 *should read*

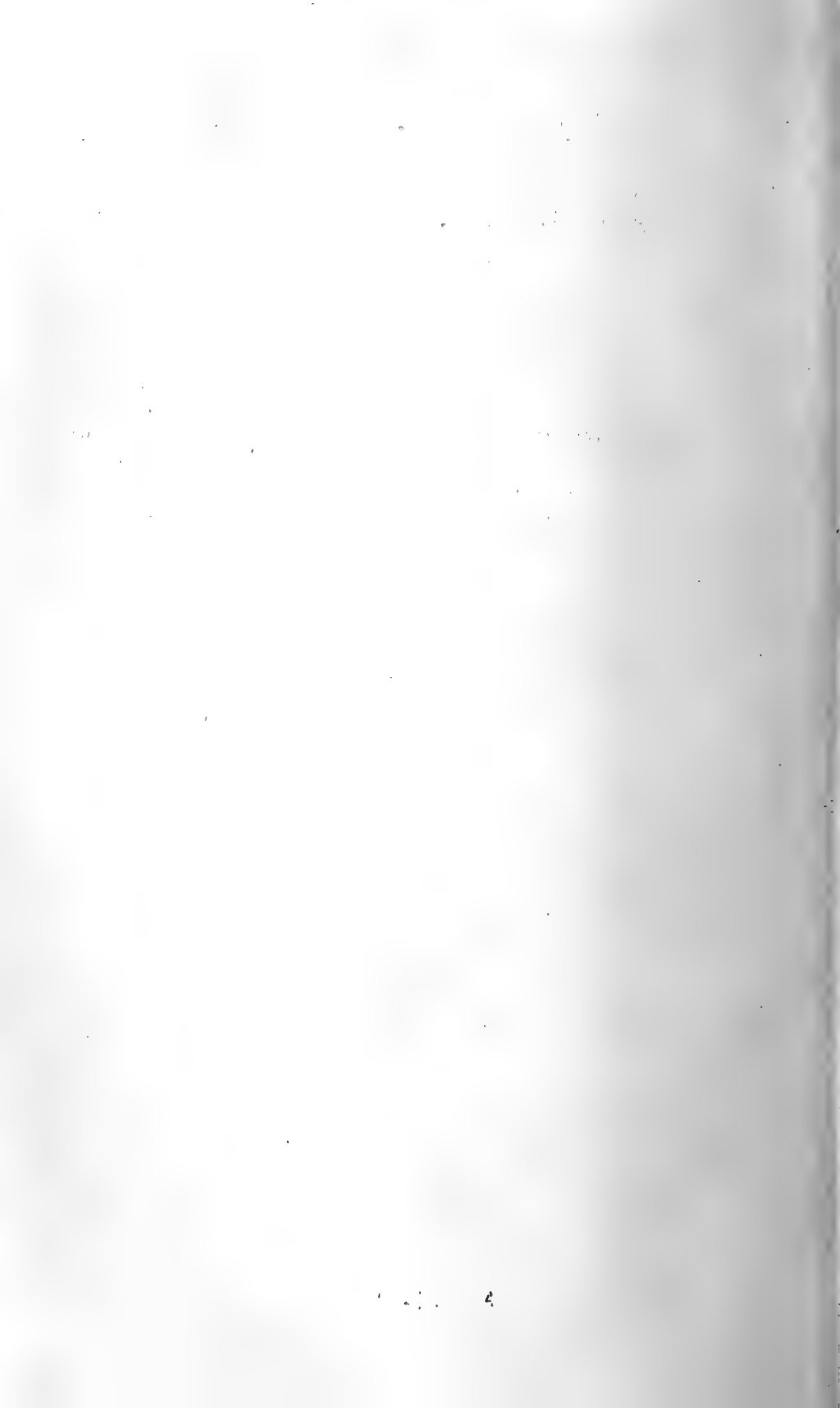
Senckenbergiana, 39 ($\frac{1}{2}$) : 57-84

61-012er
(60-3260)

Proc. U.S. nat. Mus., 109 : 150 p. *should read*

Proc. U.S. nat. Mus., 109 (3412) : 59-208

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VOLUME 5—ADDENDA

61-050ad to 61-067ad

Annotation: Lists spp. of Chlorophyceae, Chrysophyceae, and Cyanophyceae which have been found in collections of phytoplankton. 61-050ad
(60-5379)

Reference: : 70 p. 61-051ad
(60-9997)

Title: Matematicheskii analiz dinamiki chislennosti ryb (Mathematical analysis of fish population dynamics) 61-052ad
(60-4389)

Annotation: Summarizes methods described in : 1954 Widrig, T. M. and 581530 and other.

Title: Rakoobraznye. Usonogne raki (Cirripedia Thoracica) morei SSSR (Crustaceans. Cirripedia Thoracica from the seas in USSR) 61-053ad
(59-3740)

Annotation: Ill. monograph on biology of group as a whole; systematic treatment down to spp., of Lepadomorpha, Verrucomorpha, and Balanomorpha.

Annotation: Orig. issued as: *Publ. Inst. Mar. Sci. Univ. Tex.*, 6 : 146-58 and *Contr. Univ. Ga Mar. Inst.*, (21). Primary production of the plankton community in the estuarine waters near Sapelo Island, Georgia, was estimated by oxygen evolution in light and dark bottles at several locations. Data on temperature, light, and chlorophyll *a* were also obtained. 61-054ad
(60-1164)

Reference: : 227-76. 61-055ad
(582965)

Title: Hydrobiological studies on the Great Berg River, Western Cape Province. Part 2. Quantitative studies on sandy bottoms, notes on tributaries and further information on the fauna, arranged systematically

Annotation: Partial translation and comment upon: 1954 Ricker, W. E. 61-056ad
(60-7325)

Title: Opyt otsenki evoliutsionnogo znacheniiia urovnei energeticheskogo obmena (Experiment on the evaluation of the evolutionary value of the energetic metabolism levels). En 61-057ad
(60-0682)

Annotation: Correlates intensity of energetic metabolism and weight of animals. Presents numerical equations for arthropods, fishes, birds and mammals.

Annotation: HA 30 (1) 540. Chapters concerned with tapeworms from fishes, amphibians, reptiles, birds and mammals. Systematic survey of cestodes and their host relationships, list of orders, families, sub-families, genera and sub-genera. Bibliography. 61-058ad
(60-9422)

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- Title:* Badania nad wplywem zasolenia wody na faunę Monogenoidea ryb (Investigations on the influence of salinity on the fauna of Monogenea of fishes). En 61-059ad (60-5353)
- Annotation:* Issued also as: *Contr. Fla Bd Conserv. Mar. Lab.*, (14). 61-060ad (59-8104)
- Annotation:* Describes results of a year-round study of a small stream, Mad River, Ohio, to determine how wastes affected the physical-chemical environment and composition of benthic-macroinvertebrate population, and how to evaluate the significance of such organisms as indicators of ecological changes. 61-061ad (59-8460)
- Annotation:* Lists pelagic gammarid spp. caught in INW, with indications to location of capture, taken by tow or depth haul. 61-062ad (60-4743)
- Annotation:* WPA 34 (6) 1036. A description is given of the design and operation of a piston coring device suitable for use in sampling the bottom deposits in bays and harbours to determine the rate of accumulation of polluting material. 61-063ad (59-1940)
- Annotation:* As per title, incl. provinces or territories in which spp. are found. 61-064ad (59-2112)
- Annotation:* 14-year creel census. Fishing mortality rates by tagging; relative success of various planted spp. 61-065ad (60-8025)
- Annotation:* Rough data, some of it listed without explanation, is provided from Florida and Louisiana to indicate value of air reconnaissance in marine biology, particularly among coastal areas. Recommendations are offered to future users of this method. 61-066ad (60-8020)
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G. Pesca, 10 (1) : 2
Lo sviluppo della pesca del tonno nei Paesi dell'Africa Occidentale (The development of the tuna fishing in West African countries)
- Short notes on Ghana, Somalia and Senegal.
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La ricerca dei banchi di pesce con lo scandaglio ultrasonoro (Study of fishing banks with ultrasonic echosounder)
- Short ill. historical review; note on theory and recent developments, especially "white line" system.

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- Ramírez, R. G.** (1959)
México, D.F., 13 p.
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- De Buen, F.** (1958)
Invest. zool. chil., 4 : 201-7
Los grandes tiburones (*Cetorhinus* y *Rhincodon*) de la fauna marina de Chile (The large sharks, *Cetorhinus* and *Rhincodon*, of the marine fauna of Chile). En

Mentions *R. typus* captured in Chilean waters, 60 miles NW Iquique Harbour and gives the localities where *C. maximus* has been caught. A key to the sharks, families from Chile is given.
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- Bahamonde, N. N.** (1958)
Invest. zool. chil., 4 : 214-9
Megabalanus psittacus (Molina) como epizoo de *Squalus fernandinus* (Molina) (*Megabalanus psittacus* (Molina) as epizoan of *Squalus fernandinus* (Molina)). En

M. psittacus (Molina) is described as epizoan from *S. fernandinus* (Molina). It seems to be the 1st record of a Cirripedia living attached to Elasmobranchii in Chile.
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- Bahamonde, N. N.** (1958)
Invest. zool. chil., 4 : 259-64
Sobre la fecundidad de la gamba o camaron nailon (*Heterocarpus reedi* Bahamonde) (On the fecundity of the shrimp, *Heterocarpus reedi* Bahamonde). En

The fecundity and eggs number fluctuations from *H. reedi* are studied. The specimens were captured between Valparaíso and San Antonio, in September, 1956.
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- Capurro, L. S.** (1958)
Invest. zool. chil., 4 : 289-99
Lista preliminar de los anfibios de Chile y breves apuntes sobre su distribución y biología (Preliminary list of amphibians of Chile and brief notes on their distribution and biology). En

A preliminary checklist of 27 spp. of Chilean batrachians is given. Zoo-geographical features of the Chilean batrachian fauna are also defined. The relations between batrachial fauna from the Chilean and the Peruvian-Bolivian Andean area are established through spp. of *Bufo* and *Telmatobius*.

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 Population variability and phenotypic distribution of many morphological and physiological characters in *P. bibroni* Tschudi from Chile, were statistically examined.
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Pol. marit. News, 2 (9) : 8
 Notes on marine insurance
 Incl. note on Polish arrangements for fishing vessel insurance.
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- Anon. (1959)**
Pol. marit. News, 2 (9) : 10-1
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 Plans and descriptions of new vessel type herring and whitefish fishing.
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- Anon. (1959)**
Pol. marit. News, 2 (9) : 14
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 Notes on catches, government and industrial activities.
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 Short note on fish-culture perspectives in Mexico.
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- Anon. (1959)**
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 Brief note on improvement of sanitary conditions of ponds.

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- Volpe, A. V.** (1959)
Tech. Ser. Fla Bd Conserv., (31) : 37 p.
Aspects of the biology of the common snook, *Centropomus undecimalis* (Bloch) of Southwest Florida

Ci 581200. Gives data addition to 581200. Migration from tagging; growth rate and maturity, time and place of spawning, fecundity, population; partition of yield between sport and commercial sectors of industry.
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Popular article featuring activities of biologists in US.
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Comparaison de la faune infusorienne endoparasite des oligochètes du Lac d'Ohrid et de ceux du Baïkal (Comparison of the endoparasitic infusorian fauna of oligochaets of Lakes Ohrid and Baikal). Ru
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Arsb. Soc. Sci. fenn., 35 (4) : 19 p.

Suomen osallistuminen merentutkimusalus 'Arandalla' kansainvälisen Geofysiikan Vuoden 1957-58 tutkimuksiin (Finnish participation with research vessel 'Aranda' in the studies of International Geophysical Year 57-58).

Review of IGY description of research vessel 'Aranda' and review of Finnish work in Barents Sea.

F

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Louisiana Conserv., 11 (9) : 9-10, 28

Pilot crawfish farm

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Curr. Sci., 29 (1) : 21-2

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Re 60-0563.

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Ann. N.Y. Acad. Sci., 77 : 25-406

Axenic culture of invertebrate Metazoa : a goal

Rearing of annelids, echinoderms, protochordates etc., on non-living media, especially in USSR and Japan. One of the aims of this study is to get to know the minimal nutritional requirements of the Metazoa which may serve as a tool in medicine and agriculture. Culturing and rearing marine animals under laboratory conditions has been achieved in some cases. Divided into 5 parts and there are 24 contributions.

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- Lists of commissioners and committee members; financial statement; account of pertinent research; articles by the commission itself and by the states and the US Fish and Wildlife Service.
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Recuperación de guanayes (*Phalacrocorax bougainvillii*) caquecticos en cautividad.—Estudio de su ingestión y deyección (Recuperation of cormorants, *Phalacrocorax bougainvillii*, cachectic in captivity. Study of their ingestion and defecation.)
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El fenómeno de las regurgitaciones en el guanay (*Phalacrocorax bougainvillii* L.) y un método para estimar la ingestión diaria (The phenomenon of the regurgitations in the cormorant *Phalacrocorax bougainvillii* L., and a method to estimate the daily ingestion)
- Description of regurgitation and method for estimation of ingestions.

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Gewässer u. Abwässer, 6 (25) : 76 p.
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Miche, R. (1960) M
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Notes techniques sur quelques spectres de houle de la Manche Occidentale—
Comparaison avec des spectres théoriques (Technical notes on some spectra
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CR 60-1128. Statistical and calculus analyses of spectra of energy mode
by three recordings of strong swells by means of sounders reversed to ultra-
sounders.

Anon. (1960) M
61-00692
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Résultats d'observations—Navires météorologiques stationnaires (Results
of observations—Stationed meteorological vessels)

Tables of data on surface temperature and salinity.

Nicolau-Guillaumet, P. (1959) F
61-00693
Vie et Milieu, 10 (3) : 217-66

Recherches faunistiques et écologiques sur la rivière "La Massane"
(Faunistic and ecological investigations of the stream "La Massane")

A survey of the topography, environment and macro-fauna and flora.

Jarry, D. (1959) F
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Vie et Milieu, 10 (3) : 267-79

Note préliminaire sur les hirudiniées de la source du Lez (Preliminary note
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A list of spp. with notes on their habits and ecology.

Öztig, F. (1959) M
61-00695
Vie et Milieu, 10 (3) : 280-95

Étude comparée de la structure morphologique et anatomique de
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Atlantique (Comparative study of the morphological and anatomical structure
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Variations of the system of ramifications, anatomical and morphological
variations are compared.

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 Etudes sur la faune interstitielle des Iles Bahamas (A study of the interstitial fauna of the Bahamas Islands)

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Notes on structure and geographical distribution of the sp.

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 The plankton of Lake Tiberias

Study based on monthly net samples for 1949 and 1950, at depth of 10-30 m. Systematic account of main phytoplankton and zooplankton components; special study of body shape variations in *Ceratium*. Vertical distribution changes; classification of lake in terms of systems based on productivity; outline of future work.

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- G
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Ci 59-0296. First of a series in which a unified theory is presented. Relevant to mortality analysis.

- G
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- Anscombe, F. J.** (1959)
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 Rejection of outliers

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 Dispersion on a sphere

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Describes fishing methods, distribution, size composition, length, weight relationships, sex ratio and maturation of *Panulirus regius*, *P. guttatus* and *Scyllarides latus*.

MF

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 93 p.

Report of proceedings

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First session of . . . 1959—Souvenir volume

Contains 61-00710.

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In 61-00711 : 1–2
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In 61-00711 : 2
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61-00715
- Ganapati, P. N. & M. V. L. Rao (1959)**
In 61-00711 : 2–3
 (A) Marine zoology and fisheries in the Indian Ocean—4. Studies on the ecology of intertidal sands of the Visakhapatnam coast
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John, P. A. (1959)M
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(A) Marine zoology and fisheries in the Indian Ocean—7. Wood preservation in relation to fisheries

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Timber burrowing organisms along the Kerala coast destroy a number of fishing implements. *Bankia*, *Martesia* and *Sphaeroma* are the chief organisms encountered. Different types of timber used and their respective costs. Average period of service given and the annual cost of replacement is drawn up.

Kurien, C. V. & N. M. Shah (1959)M
61-00719*In* 61-00711 : 5–6

(A) Marine zoology and fisheries in the Indian Ocean—8. Studies on the bottom conditions and bottom deposits along the Kerala coast within the 100-fathom line

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

Pillay, N. K. (1959)MF
61-00720*In* 61-00711 : 6–7

(A) Marine zoology and fisheries in the Indian Ocean—9. Evolution of estuarine isopods

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Pillay, N. K. (1959)M
61-00721*In* 61-00711 : 7

(A) Marine zoology and fisheries in the Indian Ocean—10. Evolutionary trend among parasitic Flabellifera

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Comparative study of the flabelliferan isopods belonging to the families Cirolanidae, Corallanidae, Aegidae and Cymothoidae.

Nath, P. Rabindra (1959)M
61-00722*In* 61-00711 : 7–8(A) Marine zoology and fisheries in the Indian Ocean—11. Feeding habits and seasonal distribution of the frigate mackerel, *Auxis thazard* (Lacépède)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

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(A) Marine zoology and fisheries in the Indian Ocean—12. Some aspects of the burrowing fishes from Kerala

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- MF
61-00725
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Calcutta, 54 p.
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Contains 61-00726 to 61-00759.

- F
61-00726
- Ray, H. C.** (1959)
In 61-00725 : 4
Section 1.—General zoology, zoogeography and evolution—6. Chokage of filtered-water pipe systems by freshwater molluscs

Abstr. of paper presented at the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

- 61-00727
- Belsare, D. K.** (1959)
In 61-00725 : 6
Section 2.—Histology, cytology, embryology, development and genetics—10. The thyroid gland in some Indian air-breathing fishes

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Account of anatomy, histology and cytology of the thyroid gland in *Ophicephalus* and *Heteropneustes*.

F
61-00728

Swarup, H. (1959)
In 61-00725 : 11

Section 2.—Histology, cytology, embryology, development and genetics—
17. Effect of triploidy on the development of gonads in *Gasterosteus aculeatus* (L.) (Pisces)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

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61-00729

Kanungo, M. S. (1959)
In 61-00725 : 13

Section 3.—Physiology—19. Oxygen consumption and inhibition of oxygen consumption of liver of gold fish acclimatised to cold and warm temperatures.

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

F
61-00730

Dubale, M. S. & N. K. Shah (1959)
In 61-00725 : 15

Section 4.—Vertebrate morphology—22. The cranial muscles of *Wallago attu* (Bl. & Schn.) (Pisces)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

MF
61-00731

Khanna, S. S. (1959)
In 61-00725 : 15

Section 4.—Vertebrate morphology—23. Structure of the tongue in freshwater teleosts (Pisces)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Structure in 6 spp. is described. *Ophicephalus*, *Notopterus*, *Silonia*, *Wallago*, *Hilsa* and *Cirrhitina*.

F
61-00732

Saxena, D. B. (1959)
In 61-00725 : 16

Section 4.—Vertebrate morphology—26. Extent of gill surface in the teleost *Rita rita*

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959.

F
61-00733

Ramakrishna, G. (1959)
In 61-00725 : 18

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
27. A new species of *Argulus* Müller (Crustacea : Copepoda) from Kerala

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24–29 Oct. 1959. Description of specimens from a cyprinoid fish found in a local pond at Puthenveli.

REFERENCES

F
61-00734

Tiwari, K. K. (1959)
In 61-00725 : 18

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
28. New species of Conchostraca (Crustacea : Phyllopoda) from Rajasthan

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959. 4 new spp. belonging to the genera *Caenestheria*,
Caenestheriella, *Eocyzicus* and *Leptersheria*.

MF
61-00735

Tripathi, Y. R. (1959)
In 61-00725 : 18–9

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
29. Parasitic Copepoda from Indian fishes—3. Families Anthosomatidae and
Dichelestheidiidae (Crustacea : Copepoda)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959. Spp. of *Lernanthropus*, *Eudactylina* and *Pseudocycnus* are
described. Keys to the Indian spp. of *Lernanthropus* and *Eudactylina* are
given.

MF
61-00736

Tripathi, Y. R. (1959)
In 61-00725 : 19

Section 5.—Systematic zoology (excluding fishes, Insecta and helminths)—
30. Parasitic Copepoda from Indian fishes—IV. Achtheriformes

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959. 3 new spp. of *Clavellisa*, one each of *Brachiella*, *Naobranchia*
and *Thysanote* are described from marine and estuarine food fishes. *Isobranchia*
appendiculosa Heegard, 1947, first recorded from Persia, is now also recorded
from the Bay of Bengal area. Key to the subfamilies and genera of
Lernaeopodidae with a check list of spp. of the family.

MF
61-00737

Balasubrahmanyam, K. (1959)
In 61-00725 : 24

Section 7.—Marine zoology—38. Apseudidae (Isopoda: Crustacea) from the
Vellar Estuary and inshore waters off Porto Novo

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959.

M
61-00738

Dutt, S. (1959)
In 61-00725 : 24–5

Section 7.—Marine zoology—39. Morphometric studies on *Sardinella*
spp. (Pisces) of Waltair Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur,
24–29 Oct. 1959.

M

Ganapati, P. N. & M. V. L. Rao (1959)

61-00739

In 61-00725 : 25Section 7.—Marine zoology—40. Observations on the development of *Scyphistoma* larvae (Coelenterata) from Visakhapatnam Harbor

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959.

M

Ganapati, P. N. & R. Nagabhushanam (1959)

61-00740

In 61-00725 : 26

Section 7.—Marine zoology—41. Effect of pollution on hydrographical conditions in Visakhapatnam Harbor waters

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Results of a preliminary survey from May 1954 to Apr. 1955.

M

Ganapati, P. N. & D. Sarojini (1959)

61-00741

In 61-00725 : 27

Section 7.—Marine zoology—43. Ecology of Foraminifera off Visakhapatnam Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959.

M

Ganapati, P. N. & K. Shyamasundari (1959)

61-00742

In 61-00725 : 28

Section 7.—Marine zoology—44. Seasonal occurrence of mysids (Crustacea) off Waltair Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959.

M

Ganapati, P. N. & K. S. Rao (1959)

61-00743

In 61-00725 : 28-9

Section 7.—Marine zoology—45. Observations on the feeding and spawning of the anchovies (Pisces) off Waltair Coast

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Food, feeding and spawning habits of *Thrissocles mystax* (Schn.) and brief account of the food of *T. setirostris* (Brous.) and *T. dussumieri* (C.V.)

M

Ganapati, P. N. & D. V. S. Rao (1959)

61-00744

In 61-00725 : 29-30Section 7.—Marine zoology—46. On the distribution of *Physalia* (Coelenterata) in Indian waters

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Strandings are studied with past records.

- MF
61-00746
- Jacob, J. & K. Rangarajan** (1959)
In 61-00725 : 29-30
 Section 7.—Marine zoology—47. Seasonal cycles of hydrological events in Vellar Estuary

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959.

- M
61-00746
- Nagabhushanam, R.** (1959)
In 61-00725 : 30
 Section 7.—Marine zoology—48. Role of primary film in the settlement of marine borers (Mollusca)

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Experiments were conducted upon the larvae of *Martesia striata* and *Teredo furcillatus*.

- M
61-00747
- Nagabhushanam, R.** (1959)
In 61-00725 : 31
 Section 7.—Marine zoology—49. Gregarious attraction as a factor influencing the settlement of wood-boring molluscs

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Experimental investigations in 1956 to determine the gregarious tendency of larvae of *Martesia striata* and *Teredo furcillatus*.

- M
61-00748
- Nagabhushanam, R.** (1959)
In 61-00725 : 31
 Section 7.—Marine zoology—50. Settlement of marine borers (Mollusca) in the Visakhapatnam Harbor in relation to light and gravity

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Experiments for investigating effects of light and gravity upon the intensity of attack by *Martesia striata*, *Teredo furcillatus* and *Bankia campanellata*.

- M
61-00749
- Nagabhushanam, R.** (1959)
In 61-00725 : 32
 Section 7.—Marine zoology—51. Observations on the biology of the marine wood-boring mollusc, *Bankia (Liliobankia) campanellata*

Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Breeding season, development and settlement; fertilization; growth rate.

- MF
61-00750
- Rao, M. B. (1959)**
In 61-00725 : 32-3
 Section 7.—Marine zoology—52. On the species of the genus *Setipinna* Swainson (Pisces) of the Godavary Estuary
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. 2 spp. occur. One, *S. taty*, the other sp. differs from all known spp.
- M
61-00751
- Rao, T. S. S. (1959)**
In 61-00725 : 33
 Section 7.—Marine zoology—53. Studies on Chaetognatha of Indian seas—Part V. Distribution of the Chaetognatha off Kakinada Coast
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Total of 12 spp. belonging to 3 genera, *Sagitta*, *Pterosagitta* and *Krohnitta*, occur.
- F
61-00752
- Jain, S. L. (1959)**
In 61-00725 : 39-40
 Section 9.—Helminthology—64. Monogenea of Indian freshwater fishes. XI. Three new trematodes of the genus *Dactylogyrus* Diesing, 1850
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. *D. seenghali* sp. nov., from *Mystus seenghala*; *D. ritius* sp. nov., from *Rita rita*; *D. catlaeus* sp. nov., from *Catla catla*. Key for the identification of the Indian spp.
- M
61-00753
- Price, E. W. (1959)**
In 61-00725 : 40
 Section 9.—Helminthology—65. What is *Capsula martinieri* Bosc?
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Monogenetic trematode occurred on the skin of the sunfish, *Mola mola*.
- F
61-00754
- Das, S. M. (1959)**
In 61-00725 : 52
 Section 11.—Fish and fisheries—87. The scales of freshwater fishes of India and their importance in age determination and systematics
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Gives detailed scale readings of 20 spp.
- F
61-00755
- Das, S. M. (1959)**
In 61-00725 : 52-3
 Section 11.—Fish and fisheries—88. Eggs, larvae and early life-history of some catfishes of Lucknow
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. *Bagarius*, *Wallagonia*, *Mystus*, *Clarias*, *Heteropneustes*, *Eutropiichthys*, *Callichrous* have been studied.

REFERENCES

- F
61-00756
- Jayaram, K. C.** (1959)
In 61-00725 : 53
 Section 11.—Fish and fisheries—89. The nomenclatural status of *Mystus*, *Macrones*, *Aoria* and other names for a genus of Asiatic siluroid fishes
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959.
- M
61-00757
- Misra, K. S.** (1959)
In 61-00725 : 54
 Section 11.—Fish and fisheries—90. On a new scyliorhinid fish from the collections of the R.I.M.S. 'Investigator'
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Deep sea shark—family Scyliorhinidae—collected at 569 fathoms from the Andaman Sea, is described with ill. under the name *Pentanchus (Parapristurus) investigatoris*.
- F
61-00758
- Soni, D. D.** (1959)
In 61-00725 : 54
 Section 11.—Fish and fisheries—91. Fish fauna of the Bhopal Lower Lake
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Collected in May 1958. Spawning and nursery areas of *Ophiocephalus* were also observed. Few fishes such as *Rasbora*, *Barilius* were found in abundance.
- MF
61-00759
- Tubb, J. A.** (1959)
In 61-00725 : 54
 Section 11.—Fish and fisheries—92. The Indo-Pacific Fisheries Council
 Abstr. of paper presented to the 1st All-India Congress of Zoology, Jabalpur, 24-29 Oct. 1959. Describes briefly how the IPFC came into being, what are its functions and activities and how the organization works.
- MF
61-00760
- Romania. Ministerul Industriei Bunurilor de Consum.**
Departamentul Industriei Alimentare (1959)
Bul. Inst. Cerc. piscic., 18 (3) : 88 p.
 Contains 61-00761 to 61-00767. Also gives notes on congresses etc., information about fishculture at home and abroad, book reviews.
- M
61-00761
- Mărgineanu, C. & A. Petran** (1959)
Bul. Inst. Cerc. piscic., 18 (3) : 5-24
 Cercetări asupra zooplanctonului mării în regiunea sudică a litoralului Romînesc al mării Negre (Research on the marine zooplankton of the southern region of the Roumanian Black Sea coast). Fr Ru
 Data for June-Sep. 1958; qualitative and quantitative zooplankton analyses, vertical and horizontal sections; relation of biomass and numbers of organisms to depth.

- Stoina, T., R. Leonte-Teodorescu & L. Popescu** (1959) MF
61-00762
Bul. Inst. Cerc. piscic., 18 (3) : 25-42

Contribuții la cunoașterea influenței apelor dunării asupra chimismului bălților Deltei și în consecință asupra puterii de producție (Contributions to knowledge of the influence of Danube waters on the chemical characteristics of the Delta lakes and consequently on their potential productivity). Fr Ru

General review of the problem, with new data.

- Racoviceanu-Georgescu, R. & I. Bîrcă** (1959) F
61-00763
Bul. Inst. Cerc. piscic., 18 (3) : 43-50

Contribuții la cunoașterea gradului de toxicitate a ierbicidelor asupra peștilor (Contributions to knowledge of the toxicity of herbicides to fishes). Fr Ru

Experiments in aerated and non-aerated aquaria on toxic limits of "Ferresta", "2-4D" and "Raphone", using *Cyprinus carpio* and *Daphnia magna* as test organisms.

- Papadopol, M.** (1959) F
61-00764
Bul. Inst. Cerc. piscic., 18 (3) : 51-60

Dăte cu privire la ritmul de creștere și gradul de îngrășare a crapului (*Cyprinus carpio* L.) în bălțile Crapina-Jijila (Data on the growth rhythm and fatness of the carp, *Cyprinus carpio* L., in the Crapina-Jijila Lakes). Fr Ru

Growth rates, conditions factors, length-weight relation.

- Gyurko, S. & A. Róbert** (1959) F
61-00765
Bul. Inst. Cerc. piscic., 18 (3) : 61-70

Contribuții la studiul trăiektului digestiv și al nutriției la scobâr (*Chondrostoma nasus* (L.)) (Contributions to the study of the alimentary canal and nutrition of the chub, *Chondrostoma nasus* L.). Fr Ru

Growth of lip, relative and absolute lengths of gut, sex differences, diet.

- Rădulescu, I. & N. Suceveanu** (1959) F
61-00766
Bul. Inst. Cerc. piscic., 18 (3) : 71-4

Contribuții la cunoașterea hranei și parazitofaunei somnului pitic (*Ameiurus nebulosus* La Sueur) din apele Românești (Contribution to knowledge of the nutrition and parasitic fauna of *Ameiurus nebulosus* La Sueur in Roumanian waters). Fr Ru

Data for 1956 from Cefa fishculture station and River Timiș. Diet is only fish incidentally. *Ancyrocephalus pricei* is the only specific parasite, it is of American origin.

REFERENCES

- Munteanu, I.** (1959) F
61-00767
Bul. Inst. Cerc. piscic., 18 (3) : 75-9
 Contribuții la cunoașterea hranei și dezvoltării puietului de crap pe diversele zone de reproducere din Delta și Razelm (Contribution to knowledge of the nutrition and development of carp fry in the various spawning time zones of the Danube Delta and Lake Razelm). Fr Ru

Cyprinus carpio studied in spring of 1958. Proposes construction of more nurseries as the flood area is reduced.

- Sundaram, S. & P. S. Sarma** (1960) MF
61-00768
Biochem. J., 77 : 465-72

Purification and properties of a protease from the gut of *Etroplus suratensis*

Study of freshwater fish from Madras. Activity as function of pH, temperature, substrate composition. Summarizes references to purification of proteases from other fish spp.—halibut, shark, salmon, tunas. Objective was possible use as substitutes for pancreatin in leather industry.

- Nawar, G.** (1960) F
61-00769
Ann. Mag. nat. Hist., 2 (22) : 603-6

A study on the fecundity of the Nile mormyrid *Hyperopisus bebe* Lacépède

Egg production per breeding season, estimated from 62 females collected at Khartoum, Aug. 1958. Correlation with weight and length of fish.

- Hasler, A. D.** (1960) MF
61-00770
Science, 132 (3430) : 785-92

Guideposts of migrating fishes

Review of literature on migration of *Oncorhynchus* in North Pacific; reference also to *Anguilla* and *Roccus*; theories of odor and sun orientation; tank experiments for fish training in compass direction; tagging and fish tracking methods.

- Hailman, J. P.** (1960) G
61-00771
Science, 132 (3430) : 829-31
 Cannibalism

Discusses biological definition of this term.

- Best, J. B.** (1960) G
61-00772
Science, 132 (3430) : 831-2
 Cannibalism

Re 61-00771, concerning biological significance of cannibalistic behaviour.

- M
61-00773
- Mazières, J.** (1959)
Sci. Pêche, (72-73) : 12 p.
Les établissements ostréicoles d'expédition (The commercial oysterculture enterprises)

Describes technical and sanitary conditions to be met by commercial oysterculture enterprises.
- F
61-00774
- Belyshev, B. F. & T. N. Gagina** (1959)
Fragm. faun. Inst. zool. polsk, 8 (9) : 159-78
O faunie wazek (Odonata) okolic Bajkalu (On the fauna of Odonata of the Baikal Region). En
- MF
61-00775
- Gugen, O.** (1960)
Bull. Conféd. Act. subaq., (8) : 2 p.
Entraînement pour la plongée (Training for diving)

Article on avoidance of accidents with aqualungs.
- MF
61-00776
- Gugen, O.** (1960)
Bull. Conféd. Act. subaq., (8) : 2 p.
Training for diving.

En 61-00775.
- M
61-00777
- Neushul, M.** (1959)
Buenos Aires, 9 p.
Estudios biológicos submarinos en aguas Antárticas—Informe sobre las investigaciones realizadas durante la campaña antártica argentina 1957-1958 (Submarine biological studies in Antarctic waters—Report on the investigations carried out during the Argentinian Antarctic expedition 1957-1958)
- M
61-00778
- Philippines. Bureau of Fisheries. Fisheries Research Division** (1958)
Mimeo, 13 p.
Preliminary results of marine fishery biological researches on the question of regulating otter trawl fisheries in Philippine Bay waters

An interim report on the knowledge obtained so far on the biological aspects involved in the proper management of the demersal fisheries resources in Philippine Bay waters.
- M
61-00779
- Machado-Cruz, J. A.** (1959)
Publ. Inst. Zool. Augusto Nobre, (65) : 7 p.
Hepatoxylon trichiuri (Holten, 1802)—Nota sobre o seu aparecimento na costa de Portugal (*Hepatoxylon trichiuri* Holten, 1802—Note on its occurrence on the coast of Portugal)

Notes on adult and postlarval forms found in *Lepidopus caudatus*.

- M
61-00780
- Vernet-Cornubert, G.** (1959)
Bull. Soc. Sci. Nancy, 18 (3) : 263-75
Influence de l'ablation des pédoncules oculaires sur les caractères externes des femelles de *Pachygrapsus marmoratus* (Fabricius) parasitées par *Sacculina carcini* (Thompson) (Influence of ablation of ocular peduncles on the external sexual characters of females of *Pachygrapsus marmoratus* (Fabricius) parasitised by *Sacculina carcini* (Thompson))
- Description of the consequences of operation on females in juvenile stages and of other females after all external sexual characters have already appeared.
- M
61-00781
- Veillet, A.** (1959)
Bull. Soc. Sci. Nancy, 18 (3) : 329-30
Note sur le chauffage des aquariums à eau courante (Note on heating running water aquaria)
- F
61-00782
- Begum, A.** (1958)
Agric. Pakist., 9 (4) : 370-92
A short note on plankton of freshwater ponds of Dacca
- Lists of genera with ill. of zooplankton and phytoplankton, in five ponds, rough quantitative comparisons in relation to differences in seasonal conditions, water turbidity, and amount of submerged vegetation. Note on fertilization experiments in tubs and aquaria.
- MG
61-00783
- Béné, G. J., R. Beeler & M. Golub** (1960)
Amsterdam, 213 p.
Nuclear physics and atomic energy : terms of nuclear physics and nuclear technology in English, French, German, Russian
- Glossary of 2117 technical terms, fully indexed and cross-indexed. Published under the auspices of the universities of Geneva, Mainz, and Georgetown.
- G
61-00784
- Moran, P. A. P.** (1959)
London, Methuen, 111 p.
The theory of storage
- Problem of a store with either a random output or a random input. Summary of work in progress on this important application of probability theory. Chapters on inventories, dams, and statistical methods of computation.
- G
61-00785
- Elliott, A. & J. H. Dickson** (1959)
514 p.
Laboratory instruments : their design and application
- NE 1952 Elliott, A. & J. H. Dickson, with additional useful new sections.

- Francis, E. G. et al.** (1959) G
61-00786
 London University, Athlone P., 524 p.
 Isotopic tracers: a theoretical and practical manual for biological students and research workers
- NE 1954 Francis, E. G. et al. Presents theoretical principles and practical applications of methodology of stable and radioactive isotopes. Much enlarged and revised edition. References up to 1957.
- Dowdeswell, W. H.** (1959) MF
61-00787
 London, Methuen, 209 p.
 Animal ecology
- NE 1952 Dowdeswell, W. H.
- Donászy, E.** (1959) F
61-00788
 Budapest, 425 p.
 Das Leben des Szelider Sees (The life in Lake Szelid)
- Summary of the ecological-hydrobiological studies of the lake. Contains 4 parts: history of the investigations: the environment: ecology; systematic account of the fauna and flora.
- Aario, L. & H. Janus** (1958)* G
61-00789
 Braunschweig, G. Westerman Verlag, 135 p.
 Biologische Geographie (Biological geography)
- Ill., bibliography.
- Furon, R.** (1958)* G
61-00790
 Paris, Masson et Cie., 167 p.
 Causes de la répartition des êtres vivants: paléogéographie, biogéographie dynamique (Causes of distribution of living organisms: paleogeography, dynamics, biogeography)
- Rouch, J.** (1960) M
61-00791
Puntal, 7 (70): 16-9
 El Mediterráneo—La temperatura de las aguas superficiales y profundas (The Mediterranean—Surface and depth temperature)
- Brief considerations on Mediterranean temperatures.
- Anon.** (1960) F
61-00792
Bull. Sport Fish. Inst., (98): 3-7
 Warmwater river fisheries at dams
- Discusses research on and management of reservoirs, their inlets and tailwaters, and incl. diagrams of seasonal changes at reservoirs with shallow and deep water outlets.

REFERENCES

- G
61-00793
- Anderson, T. W.** (1958)
New York, J. Wiley & Sons, 374 p.
Introduction to multivariate statistical analysis

Most of material previously accessible only in widely scattered journal articles ; here it is unified. Theory is developed systematically and rigorously. Describes the multivariate normal distribution and shows how the parameters can be estimated. Criteria for testing hypotheses concerning one normal distribution or several are given, together with their sampling distributions. Recent and advanced developments are described in final chapters.

- G
61-00794
- Blom, G.** (1959)
New York, J. Wiley & Sons, 174 p.
Statistical estimates and transformed beta-variables

Treatise on theory and application of order statistics ; also discusses several problems in theory of estimation.

- G
61-00795
- Chernoff, H. & L. E. Moses** (1959)
New York, J. Wiley & Sons, 364 p.
Elementary decision theory

Elementary textbook approaches statistics as the science of decision making under uncertainty.

- G
61-00796
- Cochran, W. G. & G. M. Cox** (1957)
New York, J. Wiley & Sons, 617 p.
Experimental design

2nd ed. Working manual revised and expanded to take into account recent developments. New sections deal with : Sequential experimentation ; Multiple comparisons ; Designs for estimating residual effects when treatments are applied in sequence ; The use of fractional factorial designs in practice ; Designs with factors at more than two levels ; First order designs ; Second order designs ; Methods for determining the optimum combination of factor levels ; The single-factor method.

- G
61-00797
- Ezekiel, M. & K. A. Fox** (1959)
New York, J. Wiley & Sons, 546 p.
Methods of correlations and regression analysis : linear and curvilinear

3rd ed. Primary emphasis is placed upon algebraic methods and methods of computation are presented which are adapted to desk calculators as well as to punched card systems and electronic computers.

- Kullback, S. (1959)** G
61-00798
New York, J. Wiley & Sons, 395 p.
Information theory and statistics

Logarithmic measures of information theory are discussed in a general, probabilistic setting. Discusses the relationship between apparently diverse statistical techniques; simplifies generalization of standard test procedures and experimental designs; views applications to a wide variety of problems as a matter of detail of general procedure rather than a collection of special techniques and intuition; explains the role and the effects of various hypotheses; considers the applicability of information theory to a wide class of hypotheses.

- Lehmann, E. L. (1959)** G
61-00799
New York, J. Wiley & Sons, 369 p.
Testing statistical hypotheses

Systematic account of mathematical theory of hypotheses testing and of the related theory of confidence sets. Incl. principle applications of these theories.

- Luce, R. D. & H. Raiffa (1957)** G
61-00800
New York, J. Wiley & Sons, 509 p.
Games and decisions: introduction and critical survey

Written by mathematicians, but for the behavioral sciences, deals with problems of value—or utility—subjective probability, conflict of interest—game theory—decision making under uncertainty.

- Williams, E. J. (1959)*** G
61-00801
New York, J. Wiley & Sons, 214 p.
Regression analysis

- Moran, P. A. P. (1959)** G
61-00802
New York, J. Wiley & Sons, 110 p.
Probability theory of storage

Two types of problems discussed are: (1) the inventory problems where a store with a random demand and a rule of stocking is considered, and (2) a random input and a rule of release.

- Kozarov, G. (1958)** F
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Zborn. khidrobiol. Zav., Okhrid, 6 (1) : 8 p.

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Gives the results of studies of variations of dissolved SiO_2 and the development of the diatom population in the lake.

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 Account of studies on the meteorological tides, profiles of tidal level along the east-westward section, harmonic and non-harmonic constants and time difference and ratio of range of tide for tidal stations.
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 Observations on symptoms of gas disease above critical nitrogen level in *Carassius auratus*, *Cyprinus carpio*, *Rhodeus ocellatus*, *Oryzias latipes* and *Anguilla japonica*.
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 (*Porphyra tenera* Kjellm.), with special reference to the water current). *Ni*
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Comparative anatomy, discussion of evolution and function.

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Re 60-4203.

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Udonella caligorum, *Entobdella hippoglossi*, and *E. curvunca* were identified
 in a study of 43 Atlantic halibut, *Hippoglossus hippoglossus*. The incidence,
 distribution, and host specificity of the halibut's monogenetic parasites are
 discussed.

Srivastava, P. N. (1960) MF
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Salmo salar L.

Suggests that in the thiourea-treated fishes stimulation of the thyroid is
 indirect—thyrotropin secreted by the pituitary gland—whereas in the
 thyroxine-injected fishes the stimulation is direct and so the P³² utilization
 is maximum. Thus the thyroid stimulates mineral metabolism.

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In 61-00836 : 1-41

Lesser Antillean polychaetes, chiefly from brackish water, with a survey and a bibliography of fresh and brackish water polychaetes

Ill. taxonomic, distribution and ecological notes. The bibliography, and to some extent the notes, are world-wide in scope.

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A survey of the littoral Gastropoda of the Netherlands Antilles and other Caribbean Islands

Distribution generally, taxonomic notes.

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 Spectral and redox properties of bacteriochlorophyll in its natural state
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Biochim. biophys. Acta, 38 (3) : 460-9Influence of inorganic phosphate in the formation of phosphatases by *Escherichia coli*Reports properties of acid and alkaline phosphatase and influence of inorganic phosphate on their formation by certain strains of *E. coli*.

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Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 11-9

Field determination of some physical properties of water with the aid of zonators 1 and 2. Ru Cs

Describes instruments to record temperature, pH, electrical conductivity, color, turbidity and dissolved oxygen in reservoirs.

F

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61-00853

Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 21-166

Limnological study of the reservoir Sedlice near Želiv—3. Chemical part: iron and dissolved inorganic phosphates. Ru Cs

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Spartà, A. (1959)

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Boll. Pesca Piscic. Idrobiol., 14 (1) : 5-9Maturità sessuale, uova, sviluppo embrionale, larva alla schiusa e al 2° giorno di vita di *Lepidopus caudatus* White, con cenni sulle variazioni di peso specifico durante lo sviluppo embrionale (Sexual maturity, eggs, embryonic development, larvae when disclosing and at the 2nd day of life of *Lepidopus caudatus* White, with notes on the variations of the specific weight during the embryonic development). En FrNews on fishing and sexual maturity periods of *L. caudatus* White are given with description of eggs, embryonic development, larvae at moment of their hatch and at their 2nd day of life. Mention also is given on variations of specific gravity of eggs during their embryonic development.

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- Cognetti, G. & M. Santarelli** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 10-20

Ricerche sulle zoocenosi bentoniche del Golfo di Napoli—2. La cosiddetta Secca di San Giovanni a Teduccio (Investigations on the benthic zoo-coenoses of the Bay of Naples—2. The so-called Secca di San Giovanni a Teduccio). En Fr

On the bottom of the sea off S. Giovanni a Teduccio rocks and lower zones of mud and sand alternate perpendicular to the coast. According to the spp. collected and listed in the work, a precise comparison between the population of the two facies at the same level was made.

- M
61-00856
- De Angelis, C. M. & R. della Valle** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 21-43

Il ciclo stagionale del plancton in rapporto alle condizioni fisico-chimiche del Mar Piccolo e del Mar Grande di Taranto (The seasonal cycle of plankton in relation to the physico-chemical conditions of the Mar Piccolo and the Mar Grande at Taranto). En Fr

Describes the peculiar geographical conditions of Mar Grande and Mar Piccolo of Taranto. Material of the present preliminary study and seasonal cycle of plankton in relation to physical-chemical conditions of waters are also pointed out.

- F
61-00857
- Moroni, A.** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 44-58

Piano e metodi per uno studio sistematico dei laghi del versante N. dell'Appennino Settentrionale (Plan and methods of a systematic study of the north side of the northern Apennines). En Fr De

Reviews the studies of geographical biological-geographical and biological character, which have been made over Italian lakes with special reference to the lake basins of the northern Apennines. Divides the whole northern slope of the northern Apennines—Colle di Cadibona, Bocca Seriola—into 25 sections of study, and discusses the conception of "lake" as it appears from the bibliographical study. The method of investigation is divided into three fundamental moments: (1) cartographic and bibliographic study; (2) "on the ground" work; (3) analysis of geographical, geological, and biological data.

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61-00858
- Anichini, C.** (1959)
Boll. Pesca Piscic. Idrobiol., 14 (1) : 59-94

Risultati delle ricerche planctonologiche effettuate nella stazione fissa di Cagliari—1° semestre. Luglio-Dicembre 1957. Anno Geofisico Internazionale (Results of the planktonological investigations carried out at the permanent experiment station of Cagliari—First semester. July-December 1957. International Geophysical Year). En Fr

Compares the quantitative results obtained with two types of plankton nets; the Italian model IGY and the model Trégouboff net.

- Arena, P.** (1959) M
61-00859
Boll. Pesca Piscic. Idrobiol., 14 (1) : 95-9

A proposito di un arpione rinvenuto su un tonno pescato in Tunisia e descritto da Heldt nel 1932—Arpioni in uso nello Stretto di Messina (A propos of a harpoon found on a tuna fish, caught in Tunisia and described by Heldt in 1932—Harpoons in use in the Strait of Messina). En Fr

Describes the harpoons used in the Messina Strait on swordfish and tuna fishing, in order to make a sure identification of the first mentioned and to state its place of origin.

- Cavaliere, A.** (1959) M
61-00860
Boll. Pesca Piscic. Idrobiol., 14 (1) : 100-6

Su di un raro esemplare di *Nemichthys scolopaceus* Richardson rinvenuto sulla spiaggia di Ganzirri (Messina) (On a rare specimen of *Nemichthys scolopaceus* collected on the beach of Ganzirri, Messina). En Fr

A rare example of *N. scolopaceus* Rich., found in a perfect state of conservation is described and also drawn. Hints on the distribution of ciatiform organs are given.

- Marcolini, B. M.** (1959) F
61-00861
Boll. Pesca Piscic. Idrobiol., 14 (1) : 107-48

Limnologia dei laghi artificiali—5. Condizioni chimico fisiche comparate di alcuni laghi alpini artificiali (Limnology of artificial lakes—5. Chemico-physical conditions in comparison to some artificial alpine lakes). En Fr

Presents physico-chemical data on 5 hydroelectric reservoirs.

- Riedel, A.** (1958) F
61-00862
Ann. zool., Warszawa, 17 (11) : 383-424

Materialien zur Kenntnis der Zonitiden (Gastropoda) des Kaukasus und der Krim (Data on the knowledge of Zonitidae, Gastropoda, from the Caucasus and Crimea)

- Wurtz-Arlet, J.** (1959) F
61-00863
Bull. franç. Piscic., 32 (195) : 41-5

Toxicité des détergents anioniques vis-à-vis des alevins de truite commune (Toxicity of anionic detergents and the larvae and fingerlings of common trout)

Results of observations and experiments.

- Morava, F.** (1959) F
61-00864
Bull. franç. Piscic., 32 (195) : 46-9

"*Tilapia mossambica* Peters" source de protéine et de graisse aux tropiques (*Tilapia mossambica* Peters source of protein and fat in the tropics)

A study of the nutritive value of the sp.

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F

61-00865

Anon. (1959)

Bull. franç. Piscic., 32 (195) : 50-1

Comité Scientifique de la Station Central d'Hydrobiologie appliquée
(Scientific Committee of the Central Station of applied hydrology)

Report of activities of different regional stations.

F

61-00866

J.S. (1959)

Bull. franç. Piscic., 32 (195) : 67-8

Les facilités offertes par les sacs en polyéthylène pour le transport des
poissons vivants (The facilities offered by polyethylen bags for the transport
of live fish)

A note on transportation of several spp. in polyethylen bags.

F

61-00867

Perche, G. (1959)

Bull. franç. Piscic., 32 (195) : 68-72

Eaux closes peuplées exclusivement de brochets (Closed waters stocked
exclusively with pike)

Results of studies conducted in Lake Chain.

M

61-00868

IUGG (1960)

Chron. U.G.G.I., (27) : 49-80

Contains report of the 3rd meeting of SCOR, within the report of the 11th
meeting of the Executive Board of ICSU.

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Henrotte, J. G. (1960)

Biochim. biophys. Acta, 39 (1) : 103-21

Contribution à l'étude des myogènes de carpe et de plie (Contribution to the
study of myogens in the carp and the plaice). En

Comparative study by electrophoresis, ultracentrifuge and fractionation of
striated muscle albumins of *Cyprinus carpio* and *Pleuronectes platessa*; their
isolation and crystallization; comparison with rabbit shows big interspecific
differences in properties of albumins having similar enzymic activity.

F

61-00870

Clemens, H. P. & K. B. Sneed (1959)

Spec. sci. Rep. U.S. Fish Wildl. Serv., (316) : 10 p.

Lethal doses of several commercial chemicals for fingerling channel catfish

Tabular results of experiments with chemicals used in fish management
and agriculture.

- Sand, G. (1959)** MF
61-00871
Rep. F.A.O./E.T.A.P., (1164) : 47 p.
Report to the Government of Thailand on the handling and processing of fish.
- Report on FAO project carried out under UN Expanded Technical Assistance Programme to advise and assist government in introduction of improved practices of fish handling, preservation, distribution, methods of quality testing and procedure for quality control of fishery products and to help in establishment of efficient technological section of departmental fisheries. Gives recommendations for further development. Incl. appendices.
- McArthur, I. S. (1959)** M
61-00872
Rome, FAO, 63 p.
Report to the Government of the Republic of Ireland on the development of the sea fishery industries
- Report on FAO project carried out under UN Expanded Technical Assistance Programme. Reviews industry and advises on measures required to increase catching power and processing, to facilitate marketing and to attract the necessary capital. With appendices; (1) fishermen's training in Nova Scotia; (2) fishes of Ireland; (3) present and potential fishing grounds for selected spp.
- Uda, M. (1959)** MF
61-00873
Mimeo, 96 p.
The fisheries of Japan
- Texts of lectures given at seminars at Nanaimo, Sep. 1958–May 1959. Special reference to influence of oceanographic factors on fish and fisheries.
- Griffiths, R. C. (1960)** M
61-00874
Bull. interam. trop. Tuna Comm., 4 (3) : 41–136
A study of measures of population density and of concentration of fishing effort in the fishery for yellowfin tuna, *Neothunnus macropterus*, in the eastern tropical Pacific Ocean, from 1951 to 1956. *En Es*
- Ci 28-3562BO & 1956 J. A. Gulland. Catch and effort statistics, from 1951 to 1956 used to compute: (1) two indices of average population density; (2) an index of concentration of effort on areas of greatest density of available yellowfin. These three indices were then used to determine: (i) quarterly and annual variation in each of them; (ii) the relationship between the two indices of density; (iii) the relationship of each of the indices to the number of exploited one-degree rectangles, and applies methods of 28-3562BO & 1956 Gulland, J. A.
- Tsuruta, S. & T. Satow (Ed.) (1958)** MF
61-00875
Shimonoseki Coll. of Fishery, Terminology of fisheries, English-Japanese
- En-Ni dictionary in alphabetic order of English words, in two sections, the first strictly concerned with fisheries aquatic sciences, the second with general terms—economics, politics, equipment names, organizations—Page index to Japanese terms. Conversion tables of units.

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Cah. océanogr., 11 (2) : 101-34
 · Essai en vue d'une théorie d'Ekman généralisée (Considerations of a generalized theory of Ekman)
 An account of the theory of marine currents.
- M
61-00877
- Anon.** (1959)
Cah. océanogr., 11 (2) : 135-8
 Flotteurs-témoins de courant (Floating bottles—indicators of currents)
 Table of recoveries of drift bottles.
- MF
61-00878
- Kreuzer, R.** (1960)
 Rome, FAO, 8 p.
 Report on a preliminary study on fish handling and processing in Egypt
 Incl. short note on fisheries resources and fish supply.
- MF
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Fish Leaflet, Wash., (490) : 17 p.
 Sponges
 A semi-popular review of this group.
- F
61-00880
- Weidlein, W. D.** (1960)
Adm. Rep. Int. Fish. Calif., (60-5) : 61 p.
 Six catchable trout studies conducted in region 4 in 1958
 Presents data and methodology for evaluating stocking of six rivers with catchable sized trout.
- MF
61-00881
- Round, F. E.** (1960)
Comment. Biol., Helsinki, 21 (1) : 21 p.
 The composition of some algal communities living in rock pools on skerries near the Zoological Station at Tvärminne, S. Finland
- F
61-00882
- Round, F. E.** (1960)
Comment. Biol., Helsinki, 21 (2) : 33 p.
 The algal flora of the Tornionjoki, Muonionjoki and Könkämäeno in north Finland
 Description of the algal communities and checklist of the algae found in different localities.

- Hartt, A. C.** (1959) MF
61-00883
Circ. Fish. Res. Inst. Univ. Wash., (106) : 99 p.
 Movement of salmon in the North Pacific Ocean and Bering Sea as determined by tagging 1956-1958

Issued also as : *INPFC Doc.*, (327).

- Anon.** (1959) M
61-00884
Circ. Fish. Res. Inst. Univ. Wash., (108) : 9 p.
 Tables of returns of United States tags in 1959 from U.S. tagging experiments of 1956, 1957, 1958 and 1959 (through October 20, 1959)

Issued also as : *INPFC Doc.*, (335).

- Anon.** (1959) M
61-00885
Circ. Fish. Res. Inst. Univ. Wash., (108A) : 2 p.
 Table of additional returns of United States tags in 1959 from United States experiments of 1957, 1958, and 1959, and table of corrections (through Nov. 16, 1959)

Co 61-00884. Issued also as: *INPFC Doc.*, (335A).

- LaLanne, J.** (1959) MF
61-00886
 Seattle, Wash., Bureau of Commercial Fisheries, 6 p.
 Progress report on chum salmon morphological studies

Issued also as: *INPFC Doc.*, (314). Describes the characteristics of 10 morphological characters of chum salmon with respect to their use as indices for identifying chum salmon populations of the North Pacific area.

- Chalupa, J. & H. Vorderwinklerová** (1959) F
61-00887
Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 167-219
 Limnologicheskoe issledovanie vodokhranilishcha Sedlitse bliz Zheliva—4. Izuchenie protsessov sedimentatsii (Limnological study of the reservoir Sedlice near Želiv—4. Investigations of sedimentation processes). En Cs

- Štěpánek, V., M. Štěpánek & J. Chalupa** (1959) F
61-00888
Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 221-38
 Limnological study of the reservoir Sedlice near Želiv—5. Relation of organism counts to dissolved oxygen content. Ru Cs

- Štěpánek, M.** (1959) F
61-00889
Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 239-315
 Limnological study of the reservoir Sedlice near Želiv—6. Meteorological part. Sunshine records. Ru Cs

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61-00890

Štěpánek, M. & E. Červenková (1959)

Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 317-62

Limnologicheskie issledovaniia vodokhranilishcha Sedlitse u Zheliva—8. Kolichestvennaia kharakteristika gorizontalnogo raspredeleniia zooplanktona po ot-del'ny'm vodokhranilishcha Sedlitse (Protozoa, Rotatoria, Crustacea) (Limnological study of the reservoir Sedlice near Želiv—8. Horizontal distribution of zooplankton in different sections of the reservoir (Protozoa, Rotatoria, Crustacea)). En Cs

F

61-00891

Štěpánek, M. (1959)

Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 363-430

Limnological study of the reservoir Sedlice near Želiv—9. Transmission and transparency of water. Ru Cs

F

61-00892

Sládeček, V., L. Fiala & A. Sládečková (1959)

Sborn. vys. Šk. chem.-tech., Praha, 3 (2) : 431-595

Limnologische Forschungen am Stausee Pastviny mit besonderer Berücksichtigung des Einflusses eines Kraftwerkes (Limnological investigations on the Pastviny reservoir, with special consideration of the influence of a power plant). Ru Cs

MF

61-00893

Van Pel, H. (1961)

S. Pacif. Bull., 11 (1) : 20-2

SPC fisheries investigation in western Samoa

Brief report of South Pacific Commission's survey of present and potential development of fishery industries.

M

61-00894

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (8) : 473

DORS/60-166. Décret C.P. 1960-493 modifiant le règlement de pêche de la Nouvelle-Écosse, en vertu de la loi sur les pêcheries.—13 avril 1960 (SOR/60-166. Order in Council P.C. 1960-493 amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—13 April 1960)

Fr 61-00500.

MF

61-00895

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (8) : 462-3

SOR/60-167. Order in Council P.C. 1960-494 amending the New Brunswick fishery regulations, made under the fisheries act.—13 April 1960

No person shall set or operate a purse seine (a) from April 15 to November 15, both days incl., within one-half nautical mile of any weir, trap-net or other stationary fishing appliance that is operated under licence, or from November 16 in any year to April 14 in the year following, both days incl., within 2,000 feet of any weir, trap-net or other stationary fishing appliance that is operated under licence.

MF

61-00896

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (8) : 474-5

DORS/60-167. Décret C.P. 1960-494 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—13 avril 1960 (SOR/60-167. Order in Council P.C. 1960-494 amending the New Brunswick fishery regulations, made under the fisheries act.—13 April 1960)

Fr 61-00895.

F

61-00897

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (8) : 464-7

SOR/60-168. Order in Council P.C. 1960-495 amending the Quebec fishery regulations pursuant to the fisheries act.—13 April, 1960

Fishing prohibitions or restrictions with respect to black bass, maskinonge, smelts, lake trouts, speckled trouts, Arctic charrs and striped bass.

F

61-00898

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (8) : 476-9

DORS/60-168. Décret C.P. 1960-495 modifiant le règlement de pêche du Québec, en vertu de la loi sur les pêcheries.—13 avril 1960 (SOR/60-168. Order in Council P.C. 1960-495 amending the Quebec fishery regulations pursuant to the fisheries act.—13 April 1960)

Fr 61-00897.

F

61-00899

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (9) : 541-4

SOR/60-184. Order in Council P.C. 1960-518 amending the British Columbia fishery regulations, pursuant to the fisheries act.—19 April 1960

Numerous amendments relating to size and quantity of fish that may be caught in certain rivers, methods of fishing, etc.

F

61-00900

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (9) : 558-61

DORS/60-184. Décret C.P. 1960-518 modifiant le règlement de pêche de la Colombie-Britannique, en vertu de la loi sur les pêcheries.—19 avril 1960 (SOR/60-184. Order in Council P.C. 1960-518 amending the British Columbia fishery regulations, pursuant to the fisheries act.—19 April 1960)

Fr 61-00899.

M

61-00901

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (9) : 560-1

SOR/60-191. Order in Council P.C. 1960-571 amending the lobster fishery regulations, made under the fisheries act.—29 April 1960

The amendments relate to the protection of female lobsters, to the specifications of the lobster traps to be used in the province of Newfoundland, and to the description of various lobster fishing districts.

REFERENCES

M

Canada. Laws, Statutes, etc. (1960)

61-00902

Can. Gazette (II), (9) : 577-8

DORS/60-191. Décret C.P. 1960-571 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—29 avril 1960 (SOR/60-191. Order in Council P.C. 1960-571 amending the lobster fishery regulations, made under the fisheries act.—29 April, 1960)

Fr 61-00901.

F

Canada. Laws, Statutes, etc. (1960)

61-00903

Can. Gazette (II), (9) : 562

SOR/60-192. Order in Council 1960-572 amending the Saskatchewan fishery regulations made under the fisheries act. 29 Apr. 1960

No person shall have in his possession more than 90 pounds plus one fish of the spp. that he is permitted to take.

F

Canada. Laws, Statutes, etc. (1960)

61-00904

Can. Gazette (II), (9) : 579

DORS/60-192. Décret C.P. 1960-572 modifiant le règlement de pêche de la Saskatchewan, en vertu de la loi sur les pêcheries.—29 avril 1960 (SOR/60-192. Order in Council 1960-572 amending the Saskatchewan fishery regulations made under the fisheries act. 29 Apr. 1960)

Fr 61-00903.

MF

Canada. Laws, Statutes, etc. (1960)

61-00905

Can. Gazette (II), (10) : 586-9

SOR/60-207. Order in Council P.C. 1960-635 : Fraser River sockeye and pink salmon fishery regulations made under the fisheries act.—12 May 1960

Full details on fishing districts and open seasons.

MF

Canada. Laws, Statutes, etc. (1960)

61-00906

Can. Gazette (II), (10) : 604-7

DORS/60-207. Décret C.P. 1960-635 relatif au règlement de 1960 sur la pêche des saumons sockeye et rose du Fraser en vertu de la loi sur les pêcheries.—12 mai 1960 (SOR/60-207. Order in Council P.C. 1960-635 : Fraser River sockeye and pink salmon fishery regulations made under the fisheries act.—12 May 1960)

F

Canada. Laws, Statutes, etc. (1960)

61-00907

Can. Gazette (II), (11) : 633

SOR/60-215. Order in Council P.C. 1960-679 amending the northwest territories fishery regulations made under the fisheries act.—19 May 1960

The amendments provide (a) that the holder of a commercial licence may fish in the waters designated in such licence by operating by himself not more than 15 gill-nets with a total length of not more than 1500 yards and (b) that no person shall fish for, catch or kill any pickerel from the first day of April to 31 May, and any pike from 1 April to 15 May, both days incl. in any year.

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Canada. Laws, Statutes, etc. (1960)

61-00908

Can. Gazette (II), (11) : 653

DORS/60-215. Décret C.P. 1960-679 modifiant le règlement de pêches des territoires du nord-ouest en vertu de la loi sur les pêcheries.—19 mai 1960 (SOR/60-215. Order in Council P.C. 1960-679 amending the northwest territories fishery regulations made under the fisheries act.—19 May 1960)

Fr 61-00907.

M

Canada. Laws, Statutes, etc. (1960)

61-00909

Can. Gazette (II), (11) : 699

SOR/60-227. Order prohibiting trawlers and draggers from part of Gaspé Bay.—24 May 1960.

Pursuant to section 7 of the otter trawl fishing regulations made under the fisheries act and established by order in Council C.P. 1954-1797 of 23 Nov. 1954.

M

Canada. Laws, Statutes, etc. (1960)

61-00910

Can. Gazette (II), (11) : 724

DORS/60-227. Ordonnance interdisant les chalutiers et petits chalutiers dans une partie de la baie de Gaspé.—24 mai 1960 (SOR/60-227. Order prohibiting trawlers and draggers from part of Gaspé Bay.—24 May 1960)

Fr 61-00909.

M

Canada. Laws, Statutes, etc. (1960)

61-00911

Can. Gazette (II), (11) : 641

SOR/60-220. Order in Council P.C. 1960-712 amending the lobster fishery regulations made pursuant to the fisheries act.—26 May 1960

Amends the dates of closed seasons in certain districts.

M

Canada. Laws, Statutes, etc. (1960)

61-00912

Can. Gazette (II), (11) : 661

DORS/60-220. Décret C.P. 1960-712 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—26 mai 1960 (SOR/60-220. Order in Council P.C. 1960-712 amending the lobster fishery regulations made pursuant to the fisheries act.—26 May 1960)

Fr 61-00911.

MF

Canada. Laws, Statutes, etc. (1960)

61-00913

Can. Gazette (II), (11) : 642-82

SOR/60-221. Order in Council P.C. 1960-713 establishing the Newfoundland fishery regulations, pursuant to the fisheries act.—26 May 1960

Detailed regulations concerning fishing and fishing licenses, salmon fishery areas, codfishery areas, etc.

REFERENCES

MF

61-00914

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (11) : 662-707

DORS/60-221. Décret C.P. 1960-713 établissant le règlement de pêche de Terre-Neuve en vertu de la loi sur les pêcheries.—26 mai 1960 (SOR/60-221. Order in Council P.C. 1960-713 establishing the Newfoundland fishery regulations, pursuant to the fisheries act.—26 May 1960)

Fr 61-00913.

F

61-00915

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 768

SOR/60-243. Order in Council P.C. 1960-744 relative to the gaspereau fishing in the Tusket River, Nova Scotia.—2 June 1960

Issued by the Governor General in council pursuant to section 34 of the fisheries act.

F

61-00916

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 797

DORS/60-243. Décret C.P. 1960-744 réglementant la pêche au gasparot dans la rivière Tusket, Nouvelle-Écosse.—2 juin 1960 (SOR/60-243. Order in Council P.C. 1960-744 relative to the gaspereau fishing in the Tusket River, Nova Scotia.—2 June 1960)

Fr 61-00915.

MF

61-00917

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 769

SOR/60-244. Order in Council P.C. 1960-745 amending the British Columbia fishery regulations pursuant to the fisheries act.—2 June 1960

With certain exceptions for the year 1960 only, no person while using commercial fishing gear shall fish for, take or have in his possession coho or blueback salmon from January 1st to June 14th, both days incl., in any year.

MF

61-00918

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 798

DORS/60-244. Décret C.P. 1960-745 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries (SOR/60-244. Order in Council P.C. 1960-745 amending the British Columbia fishery regulations pursuant to the fisheries act.—2 June 1960)

Fr 61-00917.

F

61-00919

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 770-3

SOR/60-245. Order in Council P.C. 1960-746 amending the Manitoba fishery regulations pursuant to the fisheries act.—2 June 1960

The main amendments relate to fishing for commercial purposes in Lake Winnipeg.

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61-00920

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 799-802

DORS/60-245. Décret C.P. 1960-746 modifiant le règlement de pêche du Manitoba en vertu de la loi sur les pêcheries.—2 juin 1960 (SOR/60-245. Order in Council P.C. 1960-746 amending the Manitoba fishery regulations pursuant to the fisheries act.—2 June 1960)

Fr 61 00919.

M
61-00921

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 774

SOR/60-246. Order in Council P.C. 1960-747 amending the fish inspection regulations pursuant to the fish inspection act.—2 June 1960

Except where the Minister of Fisheries permits the use of bags for holding shucked scallops, only metal containers approved by an inspector shall be used for receiving, washing and holding shucked scallops on a fishing vessel.

M
61-00922

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 803

DORS/60-246. Décret C.P. 1960-747 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson.—2 juin 1960 (SOR/60-246. Order in Council P.C. 1960-747 amending the fish inspection regulations pursuant to the fish inspection act.—2 June 1960)

Fr 61-00921.

M
61-00923

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 806

SOR/60-257. Order in Council P.C. 1960-761 amending the large fishing vessel inspection regulations made under the Canada shipping act.—2 June 1960

Concerns life-saving equipment.

M
61-00924

Canada. Laws, Statutes, etc. (1960)

Can. Gazette (II), (12) : 836

DORS/60-257. Décret C.P. 1960-761 modifiant le règlement sur l'inspection des grands bateaux de pêche en vertu de la loi sur la marine marchande du Canada.—2 juin 1960 (SOR/60-257. Order in Council P.C. 1960-761 amending the large fishing vessel inspection regulations made under the Canada shipping act.—2 June 1960)

Fr 61-00923.

REFERENCES

M

Canada. Laws, Statutes, etc. (1960)

61-00925

Can. Gazette (II), (12) : 814

SOR/60-263. Order in Council P.C. 1960-791 amending the coastal fisheries protection regulations made under the coastal fisheries protection act.—11 June 1960

Subject to the customs and immigration laws of Canada, and with the permission of the Minister of Fisheries or an officer designated by him, a foreign vessel may enter any Canadian port (a) to discharge or take on board a crew member or passenger of that vessel or of any other fishing vessel registered under the same national flag; or (b) to unload, land, re-embark or trans-ship any equipment other than fishing gear, of that vessel or of any other fishing vessel registered under the same national flag.

M

Canada. Laws, Statutes, etc. (1960)

61-00926

Can. Gazette (II), (12) : 844

DORS/60-263. Décret C.P. 1960-791 modifiant le règlement sur la protection des pêcheries côtières en vertu de la loi sur la protection des pêcheries côtières.—11 juin 1960 (SOR/60-263. Order in Council P.C. 1960-791 amending the coastal fisheries protection regulations made under the coastal fisheries protection act.—11 June 1960)

Fr 61-00925.

MF

Canada. Laws, Statutes, etc. (1960)

61-00927

Can. Gazette (II), (12) : 815-6

SOR/60-264. Order in Council P.C. 1960-792 amending the northwest territories fishery regulations pursuant to the fisheries act.—11 June 1960

Concerns summer fishing and power of fishery officers to prohibit commercial fishing in the areas where prescribed limits are reached or about to be reached.

MF

Canada. Laws, Statutes, etc. (1960)

61-00928

Can. Gazette (II), (12) : 845-946

DORS/60-264. Décret C.P. 1960-792 modifiant le règlement de pêche des territoires du nord-ouest en vertu de la loi sur les pêcheries.—11 juin 1960 (SOR/60-264. Order in Council P.C. 1960-792 amending the northwest territories fishery regulations pursuant to the fisheries act. -11 June 1960)

Fr 61-00927.

M

Canada. Laws, Statutes, etc. (1960)

61-00929

Can. Gazette (II), (13) : 906

SOR/60-298. Order in Council P.C. 1960-894 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—29 June 1960

Revokes section relative to the County of Halifax.

M

Canada. Laws, Statutes, etc. (1960)

61-00930

Can. Gazette (II), (13) : 937

DORS/60-298. Décret C.P. 1960-894 modifiant le règlement de pêche de la Nouvelle-Écosse en vertu de la loi sur les pêcheries.—29 juin 1960 (SOR/60-298. Order in Council P.C. 1960-894 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—29 June 1960)

Fr 61-00929.

M

Denmark. Laws, Statutes, etc. (1960)

61-00931

Lovtidende A, (7) : 264

Bekendtgørelse Nr 75 om fredning af hvaler (Order No. 75 relative to the protection of whales.—25 February 1960)

All whales in Danish waters, except for waters round the Faroe Islands and Greenland shall be protected. Stranded whales unable to free themselves without aid shall be killed only under police supervision as far as possible.

F

Finland. Laws, Statutes, etc. (1959)

61-00932

Finlands FörfattnSaml., (325-332) : 751

Föroddning No: 328 om bringande i kraft av överenskommelsen med Norge angående rätten till fiske vid Alaköngas i Tana älv (Decree No. 328 on the coming into force of the agreement between Norway and Finland relative to fishing rights in the Tana River at Alaköngäs.—17 July 1959)

Decree states that the agreement relative to the fishing rights in the Tana River as signed on 2 Jun. 1959 between Norway and Finland shall come into force on the date specified in the agreement, the text of which is issued as a separate publication.

M

France. Laws, Statutes, etc. (1960)

61-00933

J. off. Rép. franç., (83) : 3224

Arrêté du 30 mars 1960 autorisant la fabrication de conserves de flétan (Order authorizing the manufacture of halibut conserves.—30 March 1960)

Adds halibut to the list in the order of 9 May 1952 authorizing the manufacture of preserves, semi-preserves and cooked dishes from certain varieties of fish and sea fauna.

M

France. Laws, Statutes, etc. (1960)

61-00934

J. off. Rép. franç., (103) : 4008

Décret n° 60-417 du 26 avril 1960 portant modification du décret du 10 mai 1954 relatif aux engins de sauvetage des navires de commerce, de pêche et de plaisance d'une jauge brute égale ou supérieure à 500 tonneaux (Decree No. 60-417, amending decree of 10 May 1954, relating to rescue equipment on commercial, fishing and pleasure craft of 500 tons or more.—26 April 1960)

Governs installation of lifeboats on fishing craft.

MF

Greece. Laws, Statutes, etc. (1960)

61-00935

Ephem. Kub., Greece (I), (275) : 2331-2

Diatagm. peri ruthmiseōs tes upo tōn planodiōn ichthyopōlōn diathéseōs tōn alieumatōn (Royal decree regulating the sale of certain types of fish by local fishermen.—7 December 1959)

REFERENCES

M

61-00936

Mexico. Laws, Statutes, etc. (1960)

Diario ofic., Mexico, (29) : 4-5

Acuerdo que dispone la importación de pescados, crustáceos, mariscos o moluscos en conserva, frescos, refrigerados o congelados, queda sujeta a previo permiso de la Secretaría de Industria y Comercio inclusive para las zonas y perímetros libres del país (Order subjecting the import of fish, crustaceans, shellfish and molluscs, tinned, fresh, refrigerated or frozen, to licence of the Secretariat of Industry and Commerce, including the free zones and areas of the country.—29 April 1960)

M

61-00937

Norway. Laws, Statutes, etc. (1959)

Norsk Lovtid., (40) : 1170

Kongelig resolusjon om ikrafttreden av lov av 28. mai 1959 om kvalitetskontroll med fisk og fiskevarer o.a. (Royal resolution relative to the coming into force of the act of 28 May 1959 on quality control of fish and fisheries products, etc.—30 October 1959)

Ad 60-5938. The act as above comes into force as from 1 December 1959.

M

61-00938

Norway. Laws, Statutes, etc. (1959)

Norsk Lovtid., (40) : 1171

Kongelig resolusjon om kontroll av klippfisk som eksporteres (Resolution relative to the quality control of fish and fisheries products, etc.—30 October 1959)

Provides for the control—and where necessary rejection—of clip-fish (split cod) for export, subject to such conditions as may be specified in subsequent statutes.

M

61-00939

Norway. Laws, Statutes, etc. (1959)

Norsk Lovtid., (46) : 1333

Kongelig resolusjon om endr. av S 2 i bestem. om afgift på tørrfisk til fordel for fellesreklame og propaganda for tørrfisknaeringen (frafallelse av avgift på fiskehoder (Resolution relative to joint advertising and propaganda on behalf of dried fish industry.—18 December 1959)

Amends art. 2 of earlier royal resolution of 18 Jul. 1958 on the subject whereby a tax of 1 öre per kg is imposed on all dried fish sold for purposes of advertising and propaganda.

M

61-00940

Norway. Laws, Statutes, etc. (1960)

Norsk Lovtid., (2) : 42

Resolusjon om opphevelse av I og II, S 2, i res. av 21. juni 1957 om kontrollavgifter på fersk og frossen sild og fisk (Royal resolution repealing Parts 1 and 2, S 2, of the resolution of 21 June 1957 relative to inspection control taxes on fresh and frozen herring and other fish.—15 January 1960)

Pursuant to the act of 28 May 1959 relative to quality control of fish and fisheries products.

MF

61-00941

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (46-47) : 65

Lag Nr 46 angående ändrad lydelse av 4 och 21 SS lagen den 1 december 1950 (nr 596) om rätt till fiske (Act No. 46 amending articles 4 and 21 of the act No. 596 of 1 December 1950 relative to fishing rights.—25 March 1960)

The amended articles afford aliens equal rights with Swedish citizens as regards fishing in public waters provided that such aliens have been resident in the country for at least two years.

MF

61-00942

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (46-47) : 66-7

Kungl. Maj:ts Kungörelse Nr 47 angående rätt för utlänning att fiska på allmänt vatten m.m. (Royal order No. 47 relative to the fishing rights of aliens in public waters, etc.—25 March 1960)

Permits citizens of Denmark, Finland, Iceland and Norway to fish in the above waters, with certain exceptions. Other aliens shall be bound to procure an official licence subject to the conditions specified in the text.

F

61-00943

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (130-133) : 333-9

Lag Nr 130 om fiskevårdsområden (Act No. 130 relative to fisheries protection areas.—5 May 1960)

Specifies general regulations, and conditions regarding the establishment of such area and the period of such protection. grant of fishing rights in the areas, compulsory contributions payable by owners of the areas, etc.

F

61-00944

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (130-133) : 339-40

Lag Nr 131 angående ändring i lagen den 1 december (nr 596) 1950 om rätt till fiske (Act No. 131 amending the act No. 596 of 1 December 1950 relative to fishing rights.—5 May 1960)

The amendments refer to fishing rights in regard to jointly owned properties.

F

61-00945

Sweden. Laws, Statutes, etc. (1960)*Svensk FörfSamml.*, (130-133) : 340-1

Lag Nr 132 angående ändrad lydelse av 3 S lagen den 27 juni 1957 (nr 390) om fiskearrenden (Act No. 132 amending article 3 of the act No. 390 of 27 June 1957 relative to fishing rights lease contracts.—5 May 1960)

Fishing rights concessions shall be granted for a term of not less than five years or for the period of the lessee's lifetime.

REFERENCES

Sweden, Laws, Statutes, etc. (1960) MF
61-00946
Svensk FörfSamml., (125-127) : 327

Kungl. Maj:ts förordning nr 125 angående fortsatt giltighet av förordningen den 30 maj 1952 (nr 320) om viss reglering av handeln med fisk, m.m. (Royal decree No. 125 extending the validity of decree No. 320 of 30 May 1952 governing trade in fish.—13 May 1960)

Sweden, Laws, Statutes, etc. (1960) MF
61-00947
Svensk FörfSamml., (125-127) : 327-8

Kungl. Maj:ts förordning nr 126 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 372) angående reglering av införseln av vissa slag av fisk och skaldjur (Royal decree No. 126 extending the validity of decree No. 372 of 5 June 1953 governing the import of certain kinds of fish and shellfish.—13 May 1960)

Sweden, Laws, Statutes, etc. (1960) MF
61-00948
Svensk FörfSamml., (125-127) : 328

Kungl. Maj:ts förordning nr 127 om fortsatt giltighet av förordningen den 5 juni 1953 (nr 374) angående reglering av utförseln av vissa slag av fisk och skaldjur m.m. (Royal decree No. 127 extending the validity of decree No. 374 of 5 June 1953 governing the export of certain kinds of fish and shellfish.—13 May 1960)

U.S. Laws, Statutes, etc. (1960) M
61-00949
Fed. Reg. nat. Arch. U.S., 25 (67) : 2894-8

Code of federal regulations, title 50: Wildlife, chapter 3: International regulatory agencies (fishing and whaling)—Part 301: Pacific halibut fisheries.—24 March 1960

Full text of new regulations superseding all previous issues. Regulations of the International Pacific Halibut Commission adopted pursuant to the Pacific Halibut Fishery Convention of 2 Mar. 1953 between the US and Canada.

U.S. Laws, Statutes, etc. (1960) M
61-00950
Fed. Reg. nat. Arch. U.S., 25 (67) : 2893-4

Code of federal regulations, title 50: Wildlife, chapter 1: Fish and Wildlife Service, Department of the Interior, subchapter H: Whaling—Part 151: Whaling provisions. Whale catchers attached to land stations taking baleen whales.—31 March 1960

Amendment of regulations under the whaling convention act of 1949: It is forbidden to use a whale catcher attached to a land station for the purpose of taking or killing blue whales, fin whales, humpback whales, sei whales or minke whales, except during the period 16 Apr. to 15 Oct. following, both days incl.

M

61-00951

U.S. Laws, Statutes, etc. (1960)*Fed. Reg. nat. Arch. U.S.*, 25 (81) : 3577

Code of federal regulations, title 50: Wildlife, chapter 1: Fish and Wildlife Service, Department of the Interior, subchapter 1: Northwest Atlantic Commercial Fisheries—Part 155: haddock and cod fisheries. Miscellaneous amendments.—22 April 1960

Amendments to section 155.3h (2) (iii) concerning application of $4\frac{1}{2}$ in. min. mesh in area 4 and printers' error of importance corrected in 155.3(d).

MF

61-00952

U.S. Laws, Statutes, etc. (1960)*Fed. Reg. nat. Arch. U.S.*, 25 (88) : 3895-7

Code of federal regulations, title 50: Wildlife, chapter 1: Fish and Wildlife Service, Department of the Interior, subchapter K: processed fishery products, processed products thereof, and certain other processed food products—Part 178: United States standards for grades of frozen salmon steaks.—29 April 1960

Product description, style and grades; dimensions; factors of quality and grade; definitions, etc.

F

61-00953

Podubský, V. (1958)*Ann. Acad. tchécosl. Agric.*, 3 (31) : 69-78

Kolisání inkubační doby při líhnutí jiker (Fluctuations of the developing time in fish eggs)

LZ 4 (1) : 134. Determination of "degree-days"—development time at different temperatures—of *Coregonus lavaretus*, *Salmo trutta*, *Salmo gairdneri*, *Salvelinus fontinalis*, *Thymallus thymallus*, *Esox lucius* and *Lucioperca sandra*.

F

61-00954

Anon. (1958)*Allg. FischZtg.*, 83 : 73-4

Besatz und natürliche Fortpflanzung bei Renken in bayerischen Seen (Stocking and natural propagation of white fish in Bavarian lakes)

LZ 4 (1) : 151.

M

61-00955

IAEA. Board of Governors (1960)

IAEA GOV/617, mimeo, 5 p.

Scientific collaboration with the Government of Monaco—Memorandum by the Director General

Working document; appendix gives text of draft agreement between IAEA, Govt. of Monaco and the Oceanographic Institute concerning research on disposal of radioactive wastes in the marine environment; annex A contains the agreed research programme to "obtain better knowledge of chemical, physical and biological factors influencing safe disposal of radioactive wastes, first in the Mediterranean and secondly in selected areas of the open sea and adjoining coastal waters" to serve as guide to countries contemplating marine disposal of wastes. Programme incl. survey of literature on marine ecology and identification of critical organisms and their physiology; oceanography; sampling and counting techniques for phytoplankton; food chain analysis; physical processes in the sea. Annex B lists facilities and equipment available. Incl. Corrigenda: IAEA Gov/617/Corr. 3, 1 p.

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Advanc. Sci., Lond., 16 (64) : 441-52
The work of Alexander Von Humboldt and Carl Ritter: a centenary address
Biography incl. reference to Humboldt's contributions to oceanography—
use of isopleths, average sea depths.
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61-00957
- Hale, L. J.** (1960)
Advanc. Sci., Lond., 17 (66) : 106-9
Marine aquaria in the laboratory
Discusses reasons and methods for arranging for circulation of water in
small aquaria.
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61-00958
- Darbyshire, J.** (1960)
Advanc. Sci., Lond., 17 (66) : 149-57
Microseisms and storms
Article on analysis of sea-waves; ill. of instruments.
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61-00959
- Bourcart, J. et al.** (1960)
C.R. Acad. Sci., Paris, 251 (15) : 1443-5
Les sédiments des vallées sous-marines au large dans le Golfe de Gênes
(The sediments of submarine valleys in the region of the Gulf of Genoa)
Ci 582043. 'Calypso' exploration.
- MF
61-00960
- Berthois, L. & J. Morize** (1960)
C.R. Acad. Sci., Paris, 251 (15) : 1543-5
Première évaluation du débit solide total de la Loire (First evaluation of
total solids debt of the Loire)
Movements of suspended matter and sedimentation in this French river and
its estuary.
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61-00961
- Bernard, F.** (1960)
C.R. Acad. Sci., Paris, 251 (15) : 1585-92
Rapports caractéristiques entre les principaux unicellulaires du plancton,
dénombrés en sept régions des mers chaudes (Characteristic relations between
the principal unicellular plankton organisms, enumerated in seven regions of
warm seas)
. Regions of Mediterranean compared with central Indian Ocean, and sea off
Senegal and Azores, with respect to *Cyclococcolithus*, *Syracosphaeraceae*,
Exuviella, flagellates, *Nostoc*. Variations in dominance relations with depth,
down to 3000 m.
- M
61-00962
- Steers, J. A.** (1960)
Advanc. Sci., Lond., 17 (65) : 7-15
Defence against the sea
Article discusses problems of coast erosion in various parts of the world,
wave action etc.

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61-00963
- Atkins, W. R. G.** (1959)
Advanc. Sci., Lond., 16 (62) : 124-35
Plants on land and in the oceans
- Presidential address to section K of British Association, recounting work of author and others at Plymouth on marine production and other aspects of marine biology.
- M
61-00964
- Anon.** (1961)
S. Pacif. Bull., 11 (1) : 33-4, 59
SPC boat building trainees making excellent progress
- Report on progress of South Pacific Commission's boat building course being held in the British Solomon Islands Protectorate.
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61-00965
- Wohlschlag, D. E.** (1960)
Ecology, 41 (2) : 287-92
Metabolism of an antarctic fish and the phenomenon of cold adaptation
- Compares the metabolic level of an antarctic fish *Trematomus bernacchii* adapted at temperatures of -2° to 0°C to the metabolic levels of several spp. from tropical to arctic, and from warm eurythermal to cold stenothermal, environments.
- M
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- Loesch, H.** (1960)
Ecology, 41 (2) : 292-8
Sporadic mass shoreward migrations of demersal fish and crustaceans in Mobile Bay, Alabama
- Describes this phenomenon for first time and erects a hypothetical exploration.
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61-00967
- Hartman, R. T. & J. H. Graffius** (1960)
Ecology, 41 (2) : 333-40
Quantitative seasonal changes in the phytoplankton communities of Pymatuning reservoir
- A study based on five collecting stations in the highly productive Sanctuary Lake portion of Pymatuning reservoir, Pennsylvania.
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- Davis, M. B. & J. C. Goodlett** (1960)
Ecology, 41 (2) : 346-57
Comparison of the present vegetation with pollen-spectra in surface samples from Brownington pond, Vermont
- MG
61-00969
- Swan, E. F.** (1960)
Ecology, 41 (2) : 359-60
A cage for the study of growth in sea urchins
- Describes construction of one used for *Strongylocentrotus* in New England.

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61-00970

Smith, F. E. & E. R. Baylor (1960)
Ecology, 41 (2) : 360-3
 Bees, *Daphnia*, and polarized light

Presents a set of simple experiments that will distinguish which of three possible kinds of polarization analyzers is employed by an animal orienting to the polarization plane of overhead light.

F

61-00971

Root, R. B. (1960)
Ecology, 41 (2) : 369-72

An estimate of the intrinsic rate of natural increase in the planarian, *Dugesia tigrina*

A life table and the intrinsic rate of natural increase for laboratory populations of *Dugesia tigrina* feeding on *Daphnia magna* are calculated. The influence on the size of intrinsic rate and other population parameters of reproduction at later time intervals in the life history are evaluated. Important aspects of the life history are discussed.

FG

61-00972

Cole, L. C. (1960)
Ecology, 41 (2) : 372-5

A note on population parameters in cases of complex reproduction

Uses the planarian *Dugesia* to ill. the discussion.

MF

61-00973

Heath, J. P. (1960)
Ecology, 41 (2) : 381

Penetration of fresh water through two oceanic stream bars

Describes the phenomenon at two California streams and relates findings to theories on homing of anadromous fishes.

F

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McManus, L. R. (1960)
Ecology, 41 (2) : 383-4

An occurrence of "chimney" construction by the crayfish *Cambarus b. bartoni*

Describes construction in Catatunk Creek, N.Y.

F

61-00975

Wise, C. D. (1960)
Ecology, 41 (2) : 384

Variations in size of ostracods cultured from dried soil in the laboratory

Compares these with size of uncultured individuals and expresses doubt of the reliability of new spp. described from laboratory-cultured material and of size as a criterion of spp. differences.

M

61-00976

Merrill, A. S. (1960)
Ecology, 41 (2) : 385-6

Living inclusions in the shell of the sea scallop *Placopecten magellanicus*

- Odum, H. T., J. E. Cantlon & L. S. Kornicker** (1960) MF
Ecology, 41 (2) : 395-9 61-00977

An organizational hierarchy postulate for the interpretation of species-individual distributions, species entropy, ecosystem evolution, and the meaning of a species-variety index

- U.K. Marine Biological Association** (1960) M
J. Mar. biol. Ass. U.K., 39 (3) : 417-767 61-00978

Contents incl. report of the council of the Marine Biological Association, 1959-60; list of members; abstracts of memoirs recording work done at Plymouth Laboratory.

- Alexandrowicz, J. S.** (1960) M
J. Mar. biol. Ass. U.K., 39 (3) : 419-31 61-00979

A muscle receptor organ in *Eledone cirrhosa*

Histological study; comparison with other cephalopods.

- Bentley, J. A.** (1960) M
J. Mar. biol. Ass. U.K., 39 (3) : 433-44 61-00980

Plant hormones in marine phytoplankton, zooplankton and sea water

Ci 28-0768BO and 571414, CR 60-1191. Analysis of samples from off Scottish E. coast for auxin-type compounds. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (133).

- Allen, J. A.** (1960) M
J. Mar. biol. Ass. U.K., 39 (3) : 445-7 61-00981

The ligament of *Cochlodesma praetenu* (Pulteney)

- Southward, A. J.** (1960) M
J. Mar. biol. Ass. U.K., 39 (3) : 449-58 61-00982

On changes of sea temperature in the English Channel

Ci 580182 and 580197. Mid-monthly values of surface and bottom temperature, 1921-59, derived graphically from raw data for International Station EI, and annual and other means calculated. Results are discussed in relation to faunistic and other changes. Comparison with data from other areas.

- Atkins, D.** (1960) M
J. Mar. biol. Ass. U.K., 39 (3) : 459-79 61-00983

The ciliary feeding mechanism of the Megathyridae (Brachiopoda), and the growth stages of the lophophore

Structure of adult lophophores of *Argyrotheca* and *Megathyris*, behaviour of *Argyrotheca cordata* during escape of larvae from brood pouches, growth stages of shell and of lophophore and loop of *Megathyris* are described.

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 On the biology of *Crangon allmani* Kinahan in Northumberland waters
- Length distributions; morphology and morphometry; ripening, spawning, fecundity; growth; diet; general life cycle. Based on data collected since Nov. 1954.
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61-00985
- Millar, R. H. (1960)**
J. Mar. biol. Ass. U.K., 39 (3) : 509-11
 The identity of the ascidians *Styela mammiculata* Carlisle and *S. clava* Herdman
- Shown synonymous with *S. clava* Herdman, which has priority; stalked sp. introduced to south Britain accidentally from N.W. Pacific.
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- Barrington, E. J. W. & N. Barron (1960)**
J. Mar. biol. Ass. U.K., 39 (3) : 513-23
 On the organic binding of iodine in the tunic of *Ciona intestinalis* L.
- Histology, histochemistry, chromatography. Relation to evolution of thyroidal biosynthesis in chordates.
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 Chemical changes in sea water off Plymouth during 1959
- Co 60-6629.
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- Nicol, J. A. C. (1960)**
J. Mar. biol. Ass. U.K., 39 (3) : 529-48
 Studies on luminescence. On the subocular light-organs of stomiatoid fishes.
- Comparative histology of specimens of *Stomias*, *Chauliodus*, *Astronesthes*, *Photostomias* and *Idiacanthus* spp. collected by 'Discovery' and 'Sarsia'.
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- Buchanan, J. B. & R. H. Hedley (1960)**
J. Mar. biol. Ass. U.K., 39 (3) : 549-60
 A contribution to the biology of *Astrorhiza limicola* (Foraminifera)
- Behaviour, especially feeding, and structure of test of large living specimens from British south coast. Distribution; ecology in N. Sea area.
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61-00990
- Llewellyn, J. (1960)**
J. Mar. biol. Ass. U.K., 39 (3) : 561-89
 Amphibdellid (Monogenean) parasites of electric rays (Torpedinidae)
- Ci 61-00991. Taxonomy, micro-habitat, attachment, anatomy of *Amphibdelloides* and *Amphibdella* spp. on *Torpedo nobiliana* landed by research vessels at Plymouth. Reviews group as a whole on hosts of other spp. Family Amphibdellidae to replace Amphibdellatidae, with amended diagnosis of 61-00991.

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- Bychowsky, B. E. (1957)***
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(Monogenetic trematodes, their classification and phylogeny). Ru
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The effects of salinity on the developing eggs and larvae of the herring.

Laboratory experiments with eggs of *Clupea harengus* caught off Scottish E. and W. coasts. Osmoregulation of this spp. and *C. pallasii*. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (134).
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61-00993
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J. Mar. biol. Ass. U.K., 39 (3) : 605-8
The effect of extremes of temperature on herring larvae

Ci 60-4924. Reared from eggs of herring caught on E. and W. Scottish coasts, 1957. Experiments to (1) determine tolerance range in rearing and acclimatization trials, (2) seek tolerance differences in larvae of spring- and autumn-spawned fish and (3) study hazards of temperature rises in sea caused by weather or effluents. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (135).
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- Kain, J. M. (1960)**
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Direct observations on some Manx sublittoral algae

Free-diving observations in Irish Sea. Describes sampling instrument, scraper. Dominance zones of *Saccorhiza*, *Laminaria* and *Cutleria*.
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Codium amphibium: a species of doubtful validity

Plants probably juvenile of *C. fragile*, which is here reported for first time from Cornwall.
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J. Mar. biol. Ass. U.K., 39 (3) : 637-58
Exchanges of water between the English and Bristol Channels around Land's End

Co 61-00997.
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J. Mar. biol. Ass. U.K., 39 : 173-208
The water flow into the English Channel from the south-west

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- Tropical spp., incl. *Elminius modestus* Darwin, *Chthamalus stellatus* (Poli), *Balanus perforatus* Bruguière and *B. amphitrite* var. *denticulata* (Broch), collected during winters of 1957 to 1959, induced to breed by raising temperature and feeding liberally on *Artemia* larvae.
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 Red blood values in the plaice (*Pleuronectes platessa* L.)
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 On the toleration of anaerobic conditions by *Caligus diaphanus* Nordmann
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 On the pigments of the Chrysophyceae
- No special pigments found in any of cultures of 8 spp. at Plymouth. Special study of *Isochrysis*. Spp. variation in carotenes.
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J. Morph., (105) : 401-26
 The growth stages of the lophopore and loop of the brachiopod *Terebratalia transversa* (Sowerby)
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 The histology and activities of the tube-feet of *Echinocyamus pusillus*
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 TA 15 (10) h2436. Incl. item on fish marketing problems.
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- TA 15 (10) h2447. Incl. some data on fisheries.
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Problems of the community posed by the use of water in industry
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- JAE 29 (2) : 412. Divides the Bristol Channel and Severn estuary into marine, transition and estuarine zones on the basis of salinity and deposition of silt, and discusses in particular the distribution of spp. of *Nephtys* in the region.
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Surveys the Myxosporidia encountered in New Zealand fishes, records the spp. observed belonging to the family Ceratomyxidae, and describes 32 spp., 29 of which are new. The classification of the Myxosporidia is discussed and a new scheme proposed. A system of angular measurements for measuring spores of the Ceratomyxidae is described, and its dependability and variability discussed.
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Laboratory study, on anchovy fed on *Euphausia pacifica*, of the relation between amount of food consumed and resulting growth in length and weight, and the formulation of an equation to express this; discussion of the efficiency of conversion of *Euphausia* into anchovy, and anchovy into mackerel.

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 Cytological study on some Japanese species of Rhodomelaceae

Deals with the mitosis in somatic cells and the meiosis in Tetrasporangia of the following 4 spp.: *Polysiphonia japonica*, *Chondria crassicaulis*, *Laurencia papillosa*, and *Laurencia obtusa* var. *majuscula*. The mitosis in spermatogenesis as well as in the development of procarps and gonimoblasts was also examined in *Polysiphonia japonica*.

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Fischer auf Ceylon: ein Beitrag zur Wirtschafts- und Bevölkerungsgeographie des indischen Subkontinents (Fishermen in Ceylon: a contribution to the economic and population geography of the Indian subcontinent)

Describes the natural setting of the sea fisheries and the regional distribution of the fishing population. Regional distribution of catch and fishing methods are described. Migrations of the fishermen, their organization, living standards and consumer habits are analysed. An examination is made of the significance of "communities" in the fishery and particular attention is paid to pearl fisheries, other specialized fisheries and to freshwater fisheries.

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61-043me to 61-077me

Malaya and Singapore Fisheries Department. 18/11/60 MF
61-043me
Penang, Malaya. 2 days
Seminar on fishery development planning

AAAS, Pacific Division. 18/6/61 MF
61-044me
Davis, Calif. 6 days
Meeting

American Fisheries Society. Aug. 1961 MF
61-045me
Lafayette, Ind.

Session of fishery papers at the meeting of AIBS (61-034me).

ASAB. 12/7/61 MF
61-046me
Cambridge, U.K. 2 days
Symposium on "Orientation and migration"

Will incl. following papers: T. A. Stuart "Orientation and leaping behaviour of migrating salmonids at falls and obstructions", A. E. Bradfield "Orientated movements of marine molluscs", F. R. Harden-Jones "Fish migration: passive drift or orientated movement?", K. M. Backhouse "Orientation and migration in Pinnepedia and Cetacea".

CCTA/IUCN. 27/9/61 MF
61-047me
Arusha, Africa. 8 days
Symposium on the conservation of nature and natural resources in modern African states

In collaboration with UNESCO and FAO. Amendment to 60-268me.

Chamber of Commerce of Ancona. 24/6/61 MF
61-048me
Ancona, Italy. 16 days
XX Fiera internazionale della pesca e degli sports nautici [21st International Fair of Fisheries and aquatic sports]

Held concurrently with the 7th International nautical exposition. Incl. exhibits by USIS entitled "Mondo marino" [Marine World].

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- FAO.** 6/6/61 M
61-049me
Washington, D.C. 3 days
2nd Session of continuing working party on fishery statistics in the North Atlantic area
- FAO.** Sept.-Oct./61 MF
61-050me
USSR. 5 weeks
Fisheries seminar and study tour for fishery administrators from the Indo-Pacific and Mediterranean regions
- FAO.** 18/12/1961 M
61-051me
Rome, Italy. 4 days
Consultants' meeting on marine biogeography
- FAO.** 9/8-17/10/61 M
61-052me
Tulagi, British Solomons Islands Protectorate
Training centre on fishing methods and mechanization for South Pacific Commission countries and territories
- FAO/WHO/IAEA.** 11/12/61 MF
61-053me
The Hague, Netherlands. 5 days
Seminar on the agricultural and public health aspects of radioactive contamination in normal and emergency situations
- Great Lakes Research Division.** 17/4/61 F
61-054me
Ann Arbor, Mich. 2 days
4th Conference on Great Lakes research
- Gulf States Marine Fisheries Commission.** 19/10/61 M
61-055me
New Orleans, Louisiana. 3 days
Meeting
- Hungarian Academy of Sciences/Hungarian Society of Hydrology.** 11/4/61 F
61-056me
Budapest, Hungary. 4 days
Meeting on hydrological predictions
- IAEA.** 21/11/61 G
61-057me
Mexico City, Mexico. 11 days
Conference on the use of radioisotopes in the animal biology and the medical sciences
- ICNAF.** 21/3/61 M
61-058me
Lowestoft, U.K. 10 days
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| ICSU. 25/9/61
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9th General assembly | MG
61-059me |
| IUBS. July/61
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14th General assembly | MF
61-060me |
| IWC. 24/4/61
Rome, Italy. 13 days
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61-061me |
| International Joint Commission U.S.-Canada. Apr./61
Washington, D.C.
Meeting | MF
61-062me |
| International Union for Social Service. 11/5/61
Menton, France. 5 days
European seminar of study and information (Social service for fishermen) | MF
61-063me |
| National Academy of Sciences/National Research Council. 1/5/61
Washington, D.C. 4 days
Conference on ocean wave spectra | M
61-064me |
| Scripps Institution of Oceanography. 14/6/61
La Jolla, Calif. 3 days
Conference on the "Theory of weak and strong interaction" | M
61-065me |
| UNESCO/WMO. 2/10/61
Rome, Italy. 6 days
Symposium on change of climate, with special reference to arid zones

Will incl discussion of theories of climatic change and evidence pertaining to the general circulation of atmosphere and oceans. | GM
61-066me |
| International Union of Biochemistry. 10/8/61
Moscow, USSR. 7 days
5th International congress of biochemistry | G
61-067me |
| USPHS, Taft Sanitary Engineering Center. 19/6/61
Cincinnati, Ohio. 12 days
"Aquatic biology for engineers" (Water pollution training course) | F
61-068me |

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- Marine Biological Association of India.** 3rd week/12/61 M
61-069me
Mandapam, India
Symposium on scombroid fishes

Will cover tunas, billfishes, mackerel, seer fishes.
- National Science Foundation/Office of Naval Research.** 20/10/61 M
61-070me
Baltimore, Md. 2 days
First national shallow water research conference

See also 61-071me and 61-072me.
- National Science Foundation/Office of Naval Research.** 24/10/61 M
61-071me
Tallahassee, Fla. 2 days
First national shallow water research conference

See also 61-070me and 61-072me.
- National Science Foundation/Office of Naval Research.** 27/10/61 M
61-072me
Los Angeles, Calif. 2 days
First national shallow water research conference

See also 61-070me and 61-071me.
- INPFC.** 23/10/61 M
61-073me
Tokyo, Japan. 13 days
Meeting of Committee on biology and research
- Sweden.** 2/11/61 MF
61-074me
Goteborg, Sweden. 11 days
Swedish international fisheries fair
- European Society of Haematology.** 28/8/61 MG
61-075me
Vienna, Austria. 6 days
8th Congress

Will incl. sessions on marking of blood cells with isotopes, blood change through radiations, plasma chemistry.
- ASLO.** 11/9/61 MF
61-076me
Woods Hole, Mass. 5 days
24th Annual meeting
- IUCN.** 11/11/61 MF
61-077me
Morges, Switzerland. 3 days
Meeting of the Executive Board

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60-4924	Ci 61-00993		

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VOLUME 5—EXPLANATION OF COVERAGE AND ARRANGEMENT

9. ERRATA AND ADDENDA to "EXPLANATION OF COVERAGE AND ARRANGEMENT" (contd.)

1. SCOPE AND COVERAGE OF BIBLIOGRAPHY

Insert a second paragraph as follows:

"Volumes 1 and 2 which appeared in mimeographed form during 1958 and 1959 contained references to literature published in 1957 and subsequent years. The printed volumes (Volume 3 on), continue according to the same principle, 1957 being the base year. References to most 1957 and 1958 publications, however, appeared in the mimeographed volumes, as also did a substantial proportion of the 1959 publications. A particular Series of entries contains references published in the year of the Series number or any of the three preceding years (e.g. Entry No. 61- . . . could have been published in any year from 1958 to 1961 inclusive but not in 1957). References found late for earlier years are accumulated and entered in separately indexed annual supplements, with the series of the year of publication of the most recent of those references. Thus, references to 1957 and 1958 publications received in 1962 would appear in 1963 in a supplement issued separately with a 58- . . . serial number; references to 1957, 1958, and 1959 publications received in 1963 would appear in 1964 in a supplement within the 59- . . . series."

3. REFERENCES

3.1 *Authors*

Names and Abbreviations of Organizations

Insert, in alphabetic order, the following:

FID	..	..	International Federation for Documentation
			Fédération Internationale de Documentation
NPFSC	..	..	North Pacific Fur Seal Commission

4. ANNOTATIONS AND TREATMENT OF SPECIAL CASES

4.1 *Treatment of publications not seen by compilers*

Code for Abstracting Journals

Insert, in alphabetic order, the following:

Boletín del Centro de Documentación Científica y Técnica, México	..	..	BCDM
Crescent Oceanographic Bulletin	..	..	COB
Instrument Abstracts	..	..	IA
Meteorological Abstracts and Bibliography	..	..	MA

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ERRATA

61-014er to 61-023er

Delete the following entries:

		61-014er
(59-5486)	(59-8583)	(59-8799)
(59-9832)	(60-3258)	(60-5166)
(60-5228)	(61-00205)	(61-00698)
(61-00816)		

St. John's Station, typescript, 22 p., *should read*
Transl. Ser. Fish. Res. Bd. Can., (238) : 15 p.

61-015er
(60-7312)

(1958) *should read*
(1959)

61-016er
(60-7312)

(1960) *should read*
(1959)

61-017er
(60-6299 to 60-6338)

(1960) *should read*
(1961)

61-018er
(60-3836 to 60-3850)

475 p. *should read*
681 p.

61-019er
(60-3836)

480 p. *should read*
536 p.

61-020er
(60-6299)

Title: On the predatory relationships among bluefin tuna and coastal fishes in the southern waters of Japan *should read*
(On the predatory relationships among bluefin tuna and coastal fishes in the southern waters of Japan). *Ni*

61-021er
(60-8369)

Title: Die Salmoniden des Radika-Flusses *should read*
Pastrike reke Radike

61-022er
(59-5033)

Author: Georgiev, M. *should read*
Georgievski, M.

61-023er
(59-6587)

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—ADDENDA

61-068ad to 61-103ad

Annotation: A comprehensive monograph with main chapters: Geographical position; Physiography; Life conditions; Communities; Biogeography; Fishery; Hydrobiological station in Ohrid; Bibliography. Indexes of authors, organisms, subjects. Appendix reports J. G. J. Kuiper's observations on the lamellibranchs. 61-068ad
(60-5293)

Title: Kolebaniia teplovogo balansa Atlanticheskogo okeana (Fluctuations of the heat balance in the Atlantic Ocean) 61-069ad
(59-6916)

Reference: : 309-23 61-070ad
Title: O reaktsiiakh ryb v elektricheskikh poliakhs peremennogo toka (On the reactions of fishes in electrical fields of alternating currents) (60-2226)

Title: Sgonno-nagonnaia tsirkuliatsiia i ee rol' v gidrologicheskom rezhime Chernogo moria (Rise and flow circulation and its role in the hydrological regimen of the Black Sea) 61-071ad
(60-4819)

Annotation: Orig. issued as: *Tellus*, 12 (3) : 274-81. The physical and chemical processes responsible for exchange of carbon dioxide between the atmosphere and the sea are analyzed. 61-072ad
(60-8937)

Annotation: Review of the oceanographic programme of IGY with description of the Italian programme in the Tyrrhenian Sea. 61-073ad
(60-6019)

Ref.: 12 : 127-45 61-074ad
Title: Materialy k uzucheniiu raspredeleniia belukhi v severnykh moriakh SSSR (Material to the study of distribution of belukha in the northern seas of the USSR). (60-8435)

Ref.: 12 : 146-53 61-075ad
Title: Kharakteristika podkhoda belukhi k beregam (Study of approaches of belukha to the shores) (60-8436)

Ref.: 12 : 154-7 61-076ad
Title: Zimne-vesennnee raspredelenie belukhi v Belom more (Winter-spring distribution of belukha in the White Sea) (60-8437)

Ref.: 12 : 158-64 61-077ad
Title: Opyt ispol'zovaniia samoleta dlia razved kibelukhi (Experimental air-scouting for belukha) (60-8438)

Ref.: . . . ryb. Khoz., 12 : 165-73 61-078ad
Title: Materialy po biologii razmnzheniia belukhi severnykh morei SSSR (Material on the reproductive biology of belukha of the northern seas of the USSR) (60-8439)

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- Annotation:* Issued also as: *Publ. Fish. Developm. Un. Sierra Leone*, (3). 61-079ad (571756)
- Annotation:* Issued also as: *Publ. Fish. Developm. Un. Sierra Leone*, (22). 61-080ad (60-9225)
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- Annotation:* Issued also as: *Mar. Repr. Scott. Home Dep.*, (120). 61-086ad (60-4436)
- Author:* (1960) 61-087ad (60-7717)
- Annotation:* Orig. issued as: *Publ. int. Ass. sci. Hydrol.*, (51) : 420-5. 61-088ad (60-9046)
- Annotation:* Orig. issued as: *Publ. int. Ass. sci. Hydrol.*, (51) : 387-91. 61-089ad (60-9048)
- Annotation:* Orig. issued as: *Publ. int. Ass. sci. Hydrol.*, (51) : 392. 61-090ad (60-9043)
- Annotation:* Orig. issued as *Publ. int. Ass. sci. Hydrol.*, (51) : 362-78. 61-091ad (60-9166)
- Annotation:* Orig. issued as: *Publ. int. Ass. sci. Hydrol.*, (51) : 379-86. 61-092ad (60-9041)
- Annotation:* Deals with the stock of the haddock of the Grand Bank of Newfoundland in relation with those of Europe and North America. Curves for theoretical and actual growth in the different sub-areas (3 O, 3 P and 3 N), length frequencies; number of sclerithes; vertebral counting; sexuality and maturity; feeding habits; correlation between the otolith length and weight with the age, are considered. 61-093ad (61-01135)
- Ref.:* News Service Ltd. 61-094ad (60-9969)
- Annotation:* Outlines methods for constructing and managing small farm fish ponds. 61-095ad (59-8504)

ADDENDA

Title: Sammenliknende undersøkelser vintersild-sesongen 1959 over fangstresultatene ved bruk av snurpenøter av kunstfibre (nylon/terylene) kontra snurpenøter av bomull 61-096ad (60-8017)

Annotation: Uses albacore catch data reported by longline boats. 61-097ad (60-3443)

Title: Nekotorye dannye o vliianii khishchinkov na razmernyi sostav populiatsii ryb (Some data on the effect of predatory fishes on the size of fish stocks) 61-098ad (59-3049)

Annotation: Reviews the problem of interrelations with special reference to investigations carried out in the Caspian Sea and the Volga Delta.

Annotation: Critical study of genus in America and Eurasia with distribution maps and line-drawings. 61-099ad (59-5944)

Annotation: Note on reproduction of this alga, member of Codiaceae, from Florida. 61-100ad (59-2572)

Ref.: 2 (2) : 56 p. 61-101ad
Annotation: Physical and chemical characteristics of bay were ascertained for comparison with major basins of Great Lakes. (59-2581)
 Circulation, temperature, transparency, silica, magnesium. Drift bottle studies are reported.

Annotation: Study of *Penaeus duorarum* and associated fish, *Lagodon rhomboides* (by product), as bait for angling. 61-102ad (571808)

Annotation: Describes variations in temperature—diurnal, seasonal, surface, bottom, etc.—ice conditions, etc. 61-103ad (59-2934)

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 La répartition du zooplancton des croisières 'Astrolabe' et 'Boussole'—Ses relations avec divers éléments biologiques et océanographiques (The differences of zooplankton during the cruises of 'Astrolabe' and 'Boussole'—Their relations to various biological and oceanographic elements). En
- Description of the quantitative distribution of various groups of zooplankton organisms in the western equatorial Pacific.
- M
61-01171
- Rotschi, H.** (1959)
Rapp. sci. Inst. franç. Océanie, (13) : 3-60
 Résultats de la croisière 'Boussole'—Chimie (Results of the cruise 'Boussole'—Chemistry)
- Data and discussion on the vertical and horizontal distribution of PO_4 , O_2 , pH. Special alkalinity and CO_2 totality in the western equatorial Pacific.
- M
61-01172
- Angot, M.** (1959)
Rapp. sci. Inst. franç. Océanie, (13) : 63-9
 Résultats de la croisière 'Boussole'—Production primaire (Results of the cruise 'Boussole'—Primary production)
- Data and discussion of CO_2 fixation and plant pigment concentrations in the western equatorial Pacific.
- M
61-01173
- Legand, M.** (1959)
Rapp. sci. Inst. franç. Océanie, (13) : 71-81
 Résultats de la croisière 'Boussole'—Zooplancton et larves des poissons (Results of the cruise 'Boussole'—Zooplankton and fish larvae)
- Data on quantitative distribution of zooplankton in the western equatorial Pacific.
- M
61-01174
- Jitts, H. R.** (1959)
Rapp. sci. Inst. franç. Océanie, (13) : 82-3
 Résultats de la croisière 'Boussole'—Résultats "production primaire" de la croisière 56-5 (Results of the cruise 'Boussole'—Results of the "primary production" of the cruise 56-5)
- Data on PO_4 and CO_2 concentrations and C^{14} fixation in 11° to $16^\circ 30'S$ and $162^\circ 40'$ to $165^\circ 40'E$.

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Nagabhushanam, R. (1960)

M
61-01175

J. sci. industr. Res., 19B (5) : 127-8

Comparative efficacy of some chemical compounds against marine wood-boring mollusc, *Martesia striata*

Robins, C. R. (1959)

M
61-01176

[*Publ.*] *Mar. Lab. Univ. Miami*, (59-6) : 3 p.

Summary of investigations for the period comprising November 1958 through December 1959

Report on 4th International Gamefish Conference, Nassau, 10-11/11-59. Notes on research on *Makaira* and spear-fishes. Contains 61-01178 and 61-01179.

Kamimura, T. & M. Honma (1958)

M
61-01177

Rep. Nankai reg. Fish. Res. Lab., (8) : 1-11

(A population study on the so-called Makajiki (striped marlin) of both northern and southern hemispheres of the Pacific—1. Comparison of external characters). *Ni*

Kamimura, T. & M. Honma (Beard, G. Y., Transl.) (1959)

M
61-01178

[*Publ.*] *Mar. Lab. Univ. Miami*, (59-6): App. 1, 7 p.

A population study of the so-called Makajiki (striped marlin) of both northern and southern hemispheres of the Pacific—1. Comparison of external characters

En 61-01177.

Honma, M. & T. Kamimura (Beard, G. Y., Transl.) (1959)

M
61-01179

[*Publ.*] *Mar. Lab. Univ. Miami*, (59-6) : App. 2, 12 p.

A population study of the so-called Makajiki (striped marlin) of both northern and southern hemispheres of the Pacific—2. Fishing conditions in the southern hemisphere

En 585886.

De Buen, F. (1959)

M
61-01180

Rev. Biol. mar., *Valparaíso*, 9 (1-2-3) : 3-200

Lampreas, tiburones, rayas y peces en la estación de Biología Marina de Montemar, Chile (Lampreys, sharks, rays and bonny fishes in the Marine biological Station of Montemar, Chile)

Systematic list, descriptions, notes on distribution etc ; bibliography and index to localities and genera.

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61-01181
- Fagetti Guaita, E.** (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 201-28
 Salpas colectadas frente a las costas central y norte de Chile (Salps collected off the middle and northern coasts of Chile). En
 Lists, notes and ill., with bibliography.
- M
61-01182
- Fischer, W. K.**, (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 229-49
 Huevos, crías y prelarvas de la merluza (*Merluccius gayi*), Guichenot (Eggs, embryos and prelarvae of the hake, *Merluccius gayi*, Guichenot). En
 1st stages of development described up to 8 mm standard length; based on living, as well as formalin fixed material obtained by artificial fertilization of eggs and rearing of the recently hatched vitelic larvae, and also from plankton hauls carried out between 2 and 8 miles off Valparaíso.
- M
61-01183
- Fagetti Guaita, E.** (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 251-5
 Quetognatos presentes en muestras antárticas y subantárticas (Chaetognaths in antarctic and subantarctic specimens)
 Data for *Sagitta* and *Eukrohnia* spp.
- M
61-01184
- De Buen, F.** (1959)
Rev. Biol. mar., Valparaíso, 9 (1-2-3) : 257-70
 Notas sobre ictiología chilena, con descripción de dos especies nuevas (Notes on Chilean ichthyology, with description of two new species)
 Describes and ill. *Torpedo tremens* and *Scomberesox stolatus* n. spp.; notes on *Parachaenichthys* and *Chelidonichthys* spp.
- M
61-01185
- Rodríguez, J. E. de Mesquita** (1958)
Bol. Soc. broteria., 32 : 91-4
 A new variety of *Gigartina teedii* (Roth) Lamouroux
- F
61-01186
- Mookerjee, S. & A. Sinha** (1959)
J. exp. Zool., 141 (2) : 379-89
 Regionality in the inductive power of *Hydra* tentacle
 Reports experiments with *H. vulgaris* phase *orientalis* from ponds near Calcutta.

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61-01187
- Ahlstrom, E. H.** (1959)
Fish. Bull., U.S., 60 (161) : 107-46
 Vertical distribution of pelagic fish eggs and larvae off California and Baja California

Gives information on vertical distribution of 46 spp. of fish larvae and 8 spp. of fish eggs, as determined from 22 series of hauls made at 15 stations.

- M
61-01188
- MacGregor, J. S.** (1959)
Fish. Bull., U.S., 60 (166) : 215-30
 Relation between fish condition and population size in the sardine (*Sardinops caerulea*)

Presents data for 15 fishing seasons, 1941 and 1959, showing year-to-year trends of mean condition factor and mean length of *Sardinops caerulea* at San Pedro.

- F
61-01189
- Huet, M.** (1959)
Trav. Sta. Rech. Groenendaal, (25D) : 40 p.
 Compte rendu de mission piscicole aux États-Unis et au Canada (Report on a fisheries mission to the United States and Canada)

A report on lectures delivered, institutions visited, types and methods of fishculture, and limnological features.

- M
61-01190
- Argentina. Secretaría de Marina. Servicio de Hidrografía Naval** (1959)
 Buenos Aires, 140 p.
 Química del agua de mar (Chemistry of sea water)

A text book.

- G
61-01191
- Pearce, S. C.** (1960)
Biometrics, 16 (1) : 1-6
 A method of studying manner of growth

The method described is applied to plants and consists essentially of plotting the standard deviations of log size at time t and of the increment of log size between times 0 and t against the mean fractional increment, taking into account the correlation between the initial size and the fractional increment.

- G
61-01192
- Andersen, F. S.** (1960)
Biometrics, 16 (1) : 19-27
 Competitions in population consisting of one age group

A general review, discussing differential mortality of two genotypes, larval cannibalism, fecundity, sex ratio density, dependent movements, beneficial effects of density. Few aquatic examples are cited.

REFERENCES

Blackith, R. E. (1960) G
61-01193
Biometrics, 16 (1) : 28-40

A synthesis of multivariate techniques to distinguish patterns of growth in grasshoppers

An account of the separation of sub-populations by an extension of the concept of discriminant functions to the problem of maximizing the dispersion of more than two groups of organisms over several dimensions of variation. Considers the deliberate selection of extreme individuals in choosing suitable dimensions of variation. Expanded version of a paper read to the 4th International Biometric Conference, Ottawa, Sept. 1958.

Darwin, J. H. (1960) G
61-01194
Biometrics, 16 (1) : 51-60

An ecological distribution akin to Fisher's logarithmic distribution

A model for frequency distribution of number of spp. in samples, is derived and applied to data for mosses and ciliates.

Linhart, H. (1960) G
61-01195
Biometrics, 16 (1) : 125

Tables for W. L. Stevens's "Asymptotic regression"

Ci 1951 W. L. Stevens. Notice of availability of tables for estimation of parameters in an exponential model by method of W. L. Stevens.

Riffenburgh, R. H. (1960) MF
61-01196
Biometrics, 16 (1) : 129

Parameter estimation for fish growth curves

Abstr. of paper presented at the meeting of the western North American region, S. Diego, June 15-16, 1959. Describes method for estimating parameters of Gompertz curve and others when sizes at successive times are known for individual animals or population groups.

Wiggins, A. D. (1960) MF
61-01197
Biometrics, 16 (1) : 132

A life testing problem arising from exposure to radioactive waste

Abstr. of paper presented to the meeting of the western North American region, S. Diego, June 15-16, 1959. A mathematical model of a censored life-testing experiment is constructed using the times of death as random variables. A failure rate which is a step function of time is assumed, with the result that the survival probability is a modified form of exponential law. An application to a population of fish exposed to radio-active effluents is considered.

FAO. Fisheries Division Biology Branch (1960)M
61-01198*Synops. Fish. Biol. Br. F.A.O.*, (5)

Preparation of regional fisheries oceanographic synopses

Introduces the series of FAO Fisheries Biology Branch documents referred to as Oceanographic Synopses. Lists previous documents; proposes standard outline for a regional synopsis; summarizes report by I. Hela to FAO, December 1959, on subject of title.

Taarland, T. et al. (1958)M
61-01199*Tidsskr. Hermetikind.*, (11) : 405-12

Næringsverdi og vitaminer i norsk fisk og fiskevarer (Nutritional values and vitamins of Norwegian fish and fish products). En

NAR 30 (1) 176. Chemical composition, vitamin B₁, riboflavin, nicotinic acid, pantothenic acid and vitamin B₁₂ contents and the energy value of 72 Norwegian fishes and fish products and the vitamin A-D contents of cod roe and liver, herring, brisling and mackerel are presented in two tables.

Duchâteau, G., M. Florkin & C. Jeuniaux (1959)MF
61-01200*Arch. int. Physiol.*, 67 : 489-500

Composante aminoacide des tissus chez les crustacés—1. Composante amino-acide des muscles de *Carcinus maenas* L. lors du passage de l'eau de mer à l'eau saumâtre et au cours de la mue (The amino acid component of tissues of crustaceans—1. The amino acid component of muscles of *Carcinus maenas* L., during passage from sea water to brackish water and during the moult)

NAR 30 (1) 180.

Kraiukhin, B. V. (1959)F
61-01201*Zool. Zh.*, 38 : 1242-8

Vliianie odnoobraznogo korma na pishchevaritel'nuu sistemu i obmen u karpa (*Cyprinus carpio* L.) (Effect of monotonous food on the digestive system and metabolism in the Carp, *Cyprinus carpio* L.)

NAR 30 (1) 840. Two groups of young carp were fed for 20 months exclusively on rapeseed cake or on Tubifex. By the fifth month the fish fed on worms were twice as heavy as those fed on cake and the proportion thereafter was about the same. Despite their smaller size and weight fish fed on cake had intestines almost as long and as heavy as those of fish fed on worms and their gall-bladders were heavier. Oxygen consumption was measured monthly.

Stolk, A. (1959)F
61-01202*Naturwissenschaften*, 46 : 361-2

Effect of high-fat diet on mast cell count in mesenterium of some viviparous toothcarps

NAR 30 (1) 842. Young male and female guppies, *Lebistes reticulatus* Peters, swordtails, *Xiphophorus helleri* Heckel, and platyfishes, *X. maculatus* Günther, were kept in tanks with tap water and given no food or algae, or *Enchytraeus* or a low-fat diet, or a high-fat diet alone or with added cholesterol.

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61-01203
- Newman, W. A.** (1960)
Veliger, 2 (4) : 89-94
On the paucity of intertidal barnacles in the tropical western Pacific
- BA 35E (13) 33613. Suggests that predation accounts for their restricted intertidal distribution and low density along the shores of tropical oceanic islands. Predators appear to be certain reef-browsing fishes.
- F
61-01204
- Smith, D. L.** (1960)
Mosquito News, 20 (1) : 55-6
The ability of the top minnow, *Gambusia affinis* (Baird and Girard), to reproduce and overwinter in an outdoor pond at Winnipeg, Manitoba, Canada
- BA 35E (13) 33615. Experiments have shown that the top minnow, *G. affinis*, is able to reproduce and overwinter out-doors.
- M
61-01205
- van Bruggen, A. C.** (1958)
Levende Nat., 61 (2) : 35-43
Waarnemingen op de Atlantische Ocean (Observations on the Atlantic Ocean)
- BA 35E (13) 33617. Observations on birds, fishes and whales. Dolphins near Ascension were noted.
- MF
61-01206
- Zanandrea, G. S. J.** (1959)
Pubbl. Staz. zool. Napoli, 31 (1) : 15-24
La lampreda della Campania (Lampreys from Campania)
- BA 35E (13) 33621. Describes distribution of *Lampetra planeri*, *L. fluviatilis* and *Petromyzon marinus* in the Campania region of Italy.
- F
61-01207
- Kokke, P. A.** (1958)
Levende Nat., 61 (12) : 278-84
De diatomeeënflora van een wiel te Haalderen (The diatom flora of a riverside pool at Haalderen, Netherlands)
- BA 35E (13) 33675. *Asterionella formosa* predominates in February, with peridinium *Ceratium hirudinella* and *Synedra*'s coming on in March, May gives high figures for *Pandorina morum* and *Eudorina elegans*, nanoplankton extremely rich in small diatoms, highest figures were found in March, both for centric and for pennate diatoms. With tables and diagrams.
- MF
61-01208
- Leentvaar, P.** (1958)
Levende Nat., 61 (1) : 6-12
Hydrobiologie en natuurbehoud (Hydrobiology and the conservation of nature)
- BA 35E (13) 33677. Gives an outline of State Institute for Investigations related to the Conservation of Nature. States that conservation of character, flora and fauna of a great variety of waters situated in various parts of the Netherlands will be attempted.

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- F
61-01209
- Leentvaar, P.** (1958)
Levende Nat., 61 (7) : 150-4
 Guanotrofie in het Naardermeer (Guano-trophy in the Lake of Naarden)

BA 35E (13) 33678. Reveals several sections with a rich plankton, consisting predominantly of small yellow-green flagellates and some accompanying other spp. of plankton organisms, which is tentatively ascribed to the presence of rookeries of cormorants and spoonbills, hence the term guano-trophic plankton.

- F
61-01210
- Bilii, M. D.** (1959)
Dopov. Akad. Nauk U.R.S.S., (8) : 912-6
 (Development of Zander eggs in a humid atmosphere). *Ru*

BA 35E (13) 33683. Covers results obtained during observations of *Lucioperca sandra* which developed in a humid atmosphere instead of in water. Development in moist air occurs exactly as in water, right up to hatching.

- F
61-01211
- Hoffman, C. H.** (1959)
Agric. Chemic., 14 (7) : 41-3, 89
 Are the insecticides required for pest control hazardous to aquatic life? 2.

BA 35E (13) 33688. Reviews field tests made from 1955-1957 with different insecticides.

- M
61-01212
- Orcutt, H. G.** (1959)
Rep. Amer. malac. Un., 1959 : 35
 Oysters and oyster predators in California

BA 35E (13) 33690. Reviews procedure followed for oyster culture in California.

- F
61-01213
- Payne, R. B.** (1960)
Trans. Amer. micr. Soc., 79 (1) : 108
 Notes on the occurrence of *Craspedacusta* in two natural lakes in Michigan

BA 35E (13) 36373. Fresh-water jellyfish medusae have been observed each year 1947-1959 in Barron Lake, Cass County.

- F
61-01214
- Robinson, H.** (1960)
J. Tenn. Acad. Sci., 35 (1) : 9-17
 The genus *Gerardia* in Tennessee

BA 35E (13) 36374. Reports 8 spp. of *Gerardia*, with a total of 11 varieties, with a key and descriptions.

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- M
61-01215
- Squires, D. F.** (1960)
N.Z. J. Geol. Geophys., 3 (1)
 Additional rhinangiid corals from the Wanganui series
- BA 35E (13) 36375. Records two additional spp.; *Culicia rubeola* (Quoy & Gaimard) is also represented in the modern fauna and is discussed in relation to depth distribution of the Wanganui faunas and possible occurrence of derived coral specimens in the Cook Strait area. *Oulangia radames* n. sp. is reported for the first time from New Zealand.
- MF
61-01216
- De Ridder, M.** (1959)
Natuurwet. Tijdschr., 41 (4) : 105-16
 Onderzoekingen over brakwaterrotatorien. 7. De "Grote Geule" te Kieldrecht (Investigations of brackish water rotifers—7. The "Grote Geule" at Kieldrecht)
- BA 35E (13) 36377. Presents salt tolerances and data on presence of eggs. Concludes that most so-called fresh water spp. can live in brackish and even salt water.
- M
61-01217
- Higgins, R. P.** (1960)
Trans. Amer. micr. Soc., 79 (1) : 85-91
 A new species of *Echinoderes* (Kinorhyncha) from Puget Sound
- BA 35E (13) 36378. Describes *E. pennaki*. Incl. a key to the genus.
- M
61-01218
- Dew, B.** (1959)
Rec. Aust. Mus., 25 (2) : 19-56
 Serpulidae (Polychaeta) from Australia
- BA 35E (13) 36380. Reviews most of the known Australian spp., except the Spirobridae, incl. a key to the genera, gives full descriptions of the spp., and adds to the knowledge of serpulid distribution.
- F
61-01219
- Walton, M. & H. H. Hobbs, Jr.** (1959)
Quart. J. Fla. Acad. Sci., 22 (2) : 114-20
 Two new eyeless ostracods of the genus *Entocythere* from Florida
- BA 35E (13) 36387. Describes *E. ambophora*, commensal on the albinistic crayfish, *Procambarus acherontis* and *E. lucifuga* on *P. lucifugus alachua* and *P. pallidus*.
- F
61-01220
- Cook, D. R.** (1960)
Ann. ent. Soc. Amer., 53 (1) : 35-60
 Water mites of the genus *Piona* in the United States (Acarina: Pionidae)
- BA 35E (13) 36468. Gives detailed descriptions, with figures, for 30 spp., incl. 11 that are new.

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- Vandeplas, A., W. Schraitle & C. E. P. Brooks** (Comp.) MF
61-01221
Washington, D.C. 230 p.
Alphabetical list of subject headings with corresponding universal decimal classification numbers for meteorology (551.5) and related subjects (A through L)
- NE 1955 Vandeplas, A., W. Schraitle & C. E. P. Brooks. 2nd enlarged edition based on volumes 1-10 of Meteorological Abstr. & Bibliography, Jan. 1960-Dec. 1959.
- Barnawell, E. B.** (1960) M
61-01222
Veliger, 2 (4) : 85-8
The carnivorous habit among the Polyplacophora
- BA 35E (13) 36480. Studies gut contents of 4 spp. of the genus *Mopalia* living in San Francisco Bay. Discusses some speculations as to the possibility of an entirely carnivorous chiton.
- Basch, P. F.** (1959) F
61-01223
Rep. Amer. malac. Un., 1959 : 17
The Coosa revisited
- BA 35E (13) 36481. Describes *Rhodacmea cahawbensis* Walker 1917.
- Berry, S. S.** (1959) M
61-01224
Rep. Amer. malac. Un., 1959 : 33
Some recent finds of interest in west Mexico Mollusca
- BA 35E (13) 36482. Reports important additions to the Panamic fauna and other significant discoveries in Mexican waters.
- Bousfield, E. L.** (1959) MF
61-01225
Rep. Amer. malac. Un., 1959 : 33
Malacology in the National Museum of Canada
- BA 35E (13) 36483. The current status of malacology in the National Museum of Canada is discussed, with particular reference to Canadian Pacific marines.
- Burch, J. Q.** (1959) F
61-01226
Rep. Amer. malac. Un., 1959 : 5-6
Classification in the Olividae
- BA 35E (13) 36484. Genetic organization permits great variation in color, and to some extent in form as well. Result being creation of very large synonymy for many spp. Discusses problems involved.

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- Clarke, A. H., Jr.** (1959) M
61-01227
Rep. Amer. malac. Un., 1959 : 3-4
 In search of *Neopilina*
- BA 35E (13) 36486. Reports finding of new subgenus and sp. of *Neopilina* in Milne-Edwards trench off northern and central Peru. Incl. notes on ecology, feeding and locomotion of the sp.
- Cox, K. W.** (1959) M
61-01228
Rep. Amer. malac. Un., 1959 : 34
 The abalones of California
- BA 35E (13) 36487. Spp. of abalone found in California are: *Haliotis rufescens*, *H. corrugata*, *H. fulgens*, *H. walallensis*, *H. cracherodii*, and *H. sorenseni*. Discusses variations in shell forms and other distinguishing characters.
- Hertlein, L. G. & E. C. Allison** (1960) M
61-01229
Veliger, 2 (4) : 94-5
 Species of the genus *Cypraea* from Clipperton Island
- BA 35E (13) 36492.
- Hill, H. R.** (1959) M
61-01230
Rep. Amer. malac. Un., 1959 : 34
 Some observations on tropical West American cones
- BA 35E (13) 36493. Occurrence of *Conus* along the coast of tropical W. America. Comments are made relative to the validity of spp. and other pertinent considerations of the group.
- McInnes, D. E.** (1959) M
61-01231
Vict. Nat., Melb., 76 (6) : 150-2
 Observations on the paper nautilus
- BA 35E (13) 36497. Observations on two captured specimens of *Argonauta nodosa* and several newly hatched young, incl. microscopical observations on the action of the color cells of the young.
- Milburn, W. P.** (1959) MF
61-01232
Rep. Amer. malac. Un., 1959 : 36
 The interpretation of *Neopilina*
- BA 35E (13) 36498. Discusses relationship of molluscs to other invertebrates such as arthropods, annelids, bryozoans, and branchiopods. Discovery of *Neopilina* has partially clarified relationship within Mollusca. Gives morphological characters for each group.

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- Orr, V. (1959)** M
61-01233
Rep. Amer. malac. Un., 1959 : 13-4
 Observations of *Murex stainforthi* and *M. monodon*

BA 35E (13) 36499. Describes shell forms and other distinguishing characters of spp. collected from Broome, Western Australia.

- Orr, V. (1959)** M
61-01234
Rep. Amer. malac. Un., 1959 : 23-4
 Collecting at Broome, Western Australia

BA 35E (13) 36500. Collecting expedition shows that molluscan fauna is a mixture of widespread Indo-Pacific spp., such as *Cypraea caput-serpentis*, *Fragum unedo*, *Amoria volutes* and *Sunemeroe perexcavata*. *Tectus caeruleus* resemble their Indo-Pacific counterparts, *T. pyramis*. Records other observations.

- Robertson, R. (1959)** F
61-01235
Rep. Amer. malac. Un., 1959 : 22-3
 The mollusc fauna of Bahamian mangroves

BA 35E (13) 36501. Presents taxonomic composition of molluscan fauna with comments on occurrence and distribution of forms, and their habits, incl. remarks on life histories and descriptions of their appearance. Discusses the influence of the algal flora with comments on specific algae.

- Rosewater, J. (1959)** F
61-01236
Rep. Amer. malac. Un., 1959 : 10-3
 Egg mass and gross embryology of *Pleurocera canaliculatum* (Say, 1811)

BA 35E (13) 36502. Describes eggs and gives a "time table" that indicates the outstanding events during the development. Compares data with information available on other members of the family.

- Saunders, P. R. (1959)** M
61-01237
Rep. Amer. malac. Un., 1959 : 36
 Studies on the feeding habits and venom of several species of *Conus*

BA 35E (13) 36503. Reports observations on the feeding behaviour of two dangerously venomous cone snails, *Conus striatus* and *C. textile*.

- Smith, A. G. (1959)** F
61-01238
Rep. Amer. malac. Un., 1959 : 37
 Collecting land snails in the Cape San Lucas region

BA 35E (13) 36504. Reports that *Bulinulus artemisia* was taken alive for the first time.

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61-01239
- Smith, A. G.** (1960)
Veliger, 2 (4) : 75-7
 The type species of *Lepidopleurus* Leach in Risso, 1826
 BA 35E (13) 36505. Reviews taxonomy of the polyplacophoran genus *Lepidopleurus* Leach in Risso, 1826.
- M
61-01240
- Steinberg, J. E. & M. L. Jones** (1960)
Veliger, 2 (4) : 73-5
 A new opisthobranch of the genus *Aglaja* in San Francisco Bay
 BA 35E (13) 36508.
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61-01241
- Talmadge, R. R.** (1960)
Veliger, 2 (4) : 83-5
 Color phases in *Monadenia fidelis* (Gray)
 BA 35E (13) 36510. Reports that color phases, referable to the same geographical race were found to occupy specific and separate ranges along the Trinity River in northern California.
- F
61-01242
- Vagvolgyi, J.** (1959)
Rep. Amer. malac. Un., 1959 : 18-9
 Subspeciation in *Triodopsis*
 BA 35E (13) 36511. Gives morphological study of *Triodopsis*. Studies anatomy of the genitalia and considers their geographic distribution. Makes suggestions to change the present classification.
- MF
61-01243
- Briggs, J. C. & R. R. Miller** (1960)
Occ. Pap. Mus. Zool. Univ. Mich., 616 : 1-5
 Two fresh water clingfishes of the genus *Gobiesox* from southern Mexico
 BA 35E (13) 36514. *G. fluviatilis*, from tributaries of the Rio Grande de Santiago and *G. mexicanus*, from various places near the southwestern coast.
- MF
61-01244
- Blaak, H.** (1958)
Levende Nat., 61 (6) : 131-3
 Over het broeden van de scholekster in Nederland (On the nesting of the oyster catcher in the Netherlands)
 BA 35E (13) 36520. Gives an overall picture of areas where *Haematopus ostralegus* nests.
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- Hall, K. R. L.** (1959)
Ostrich, 30 (4) : 143-54
 Observations on the nest-sites and nesting behaviour of the black oyster-catcher *Haematopus moquini* in the Cape peninsula
 BA 35E (13) 36525.

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61-01246
- Davies, J. L.** (1960)
J. Mammal., 41 (1) : 29-34
 The southern form of the pilot whale
- BA 35E (13) 36543. *Globicephala malaena* Traill and *G. leucosagmaphora* Rayner represent one polymorphic sp. of disjunct distribution, within which the proportion of different color varieties differs markedly.
- M
61-01247
- Barnard, J. L.** (1960)
Pacif. Nat., 1 (16) : 36 p.
 New bathyal and sublittoral ampeliscid amphipods from California, with an illustrated key to *Ampelisca*
- Ill. descriptions of *Ampelisca*, *Byblis* and *Haploops* spp.
- M
61-01248
- Barnard, J. L. & R. R. Given** (1960)
Pacif. Nat., 1 (17) : 37-48
 Common pleustid amphipods of southern California with a projected revision of the family
- Review of Pleustidae, with keys to n. hemisphere genera, and to S. California spp.
- M
61-01249
- Menzies, R. J. & M. Tinker** (1960)
Pacif. Nat., 1 (18) : 4 p.
Haploniscus robinsoni, a new species of asellote deep sea isopod from the eastern tropical Pacific Ocean
- Diagnosis, ill, description, affinities.
- M
61-01250
- Angelescu, V. & E. E. Boschi** (1959)
 Buenos Aires, 135 p.
 Estudio biologico pesquero del langostino de Mar del Plata en conexi3n con la operaci3n Nivel Medio (Biological study of the shrimp of Mar del Plata in connexion with the Mid Level operation)
- Hydrological conditions of the fishing area, size classes and distribution of *Hymenopenaeus m3lleri*.
- MF
61-01251
- Kramp, P. L.** (1960)
Rec. Indian Mus., 53 (3-4) : 339-76
 Hydromedusae in the Indian Museum
- BA 35E (16) 46055. Collection of 37 spp., comprising 5 Anthomedusae, 19 Leptomedusae, incl. *Octophialucium indicum* and *Eutima hartlaubii*; 5 Limnomedusae; 5 Trachymedusae, and 3 Narcomedusae. The most important references are given, previous records from Indian waters, localities where taken, morphological and systematics.

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- Barnard, J. L.** (1959)
Bull. S. Calif. Acad. Sci., 58 (1) : 16
 The number of species of gammaridean Amphipoda (Crustacea)
- BA 35E (16) 46060. 3146 spp. known at end of 1956, compared with the 1242 spp. listed in Stebbings 1906 revision.
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61-01253
- Colman, P.** (1959)
Proc. R. zool. Soc. N.S.W., 1957-58 : 56-7
 A new haliotid for New South Wales
- BA 35E (16) 46157. *Sanhaliotis whiteshousei*, varies from the original sp. described in 1826 as *Haliotis squamosa*.
- M
61-01254
- Colman, P.** (1959)
Proc. R. zool. Soc. N.S.W., 1957-58 : 59
 An albino cowry, *Erosaria erosa*, from Long Reef, N.S.W.
- BA 35E (16) 46158.
- M
90-01255
- Edmondson, C. H.** (1959)
Occ. Pap. Bishop Mus., 22 (11) : 203-6
 Two new species of *Teredo*, subgenus *Teredothyra*, from the western Pacific
- BA 35E (16) 46160.
- M
61-01256
- Klappenbach, M. A.** (1958)
Comun. zool. Mus. Montevideo, 81 : 1-4
 Una nueva especie de *Cyclodontina* del Uruguay (Gastr. Pulm.) (A new species of *Cyclodontina* from Uruguay, Gastr. Pulm.)
- BA 35E (16) 46163.
- MF
61-01257
- Macan, T. T.** (1960)
Sci. Publ. Freshwat. biol. Ass. Brit. Emp., 13
 A key to the British fresh- and brackish-water gastropods, with notes on their ecology
- BA 35E (16) 46164.
- M
61-01258
- Martel Sangil, M.** (1959)
Cons. Sup. Invest. cient. Estud. Geol., 15 (41-44) : 421-5
 Sobre un notable caso de convergencia en un gasterópodo recifal (On a notable case of convergence in a gastropod from Recife)
- BA 35E (16) 46165. *Rothpletzia rudista* from Canary Islands redescribed. Gastropods of the family Hyponoycidae, but showing curious convergencies with organisms which live in a coral-reef biotope.

- M
61-01259
- McMichael, D.** (1959)
Proc. R. zool. Soc. N.S.W., 1957-58 : 60-2
 The rediscovery of *Ternivoluta studeri* Martens (Mollusca: Volutidae)

BA 35E (16) 46166. First collected by German vessel 'Gazelle' in 1875, probably just outside Moreton Bay, apparently was not encountered again until recently in Tin Can Bay, south of Fraser Island, Queensland. Placed in subfamily Athletinae which contains a number of fossil genera, and appears to be nearly extinct.

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61-01260
- Nagabushanam, R.** (1960)
Rec. Indian Mus., 53 (1-2) : 1-11
 A systematic account of the molluscan wood borers of Visakhapatnum Harbour

BA 35E (16) 46168. An artificial land-locked harbour, approached by dredged channel, located midway between Madras and Calcutta. Organisms collected at low tide, weekly, throughout one year. 10 spp. of *Teredo*, 1 of *Bactronophorus*, 2 of *Banksia* and 2 of *Martesia* are recorded.

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- Nair, N. Balakrishnan** (1960)
Rec. Indian Mus., 53 (1-2) : 261-78
 Shipworms of India—2. Seven more shipworms from South India

BA 35E (16) 46169. *Bankia* and *Teredo*.

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61-01262
- Van Eeden, J. A.** (1960)
Ann. Transv. Mus., 24 (1) : 1-17
 Key to the genera of South African freshwater and estuarine gastropods (Mollusca)

BA 35E (16) 46176. Covers 14 genera in 9 families of Prosobranchia, and 18 genera in 5 families of Pulmonata, and incl. subgenera. Notes on a collecting technique, with ill. of useful wire-gauze scoop.

- M
61-01263
- Wagner, A.** (1960)
J. Parasitol., 46 (2) : 186
 Maintenance of a marine snail in the laboratory

Batillaria minima maintained for a year. Individuals infected with *Ornithobilharzia canaliculata*, an avian schistosome, continued to shed Cercariae at the end period.

BA 35E (16) 46177.

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- Winkler, L. R.** (1959)
Bull. S. Calif. Acad. Sci., 58 (1) : 8-10
 A new species of sea hare from California waters
- BA 35E (16) 46179. *Aplysia* (*Neaplysia*) *nettieae*.
- M
61-01265
- Moore, A. R.** (1959)
Biol. Bull., Woods Hole, 117 (3) : 492-6
 On the embryonic development of the sea urchin *Allocentrotus fragilis*
- BA 35E (16) 46181. Eggs of deep sea sp. taken in February and March develop normally at temperatures of 15°C or lower. Crosses with two common shore forms obtained. Spawning occurs toward the end of March.
- F
61-01266
- Alvarez, J.** (1959)
Ciencia, Méx., 19 (4-5) : 69-73
 Nuevas especies de *Xiphophorus* e *Hyporhamphus* (sic) procedentes del Rio Coatzacoalcos (Pisc., Poeciliidae X Hemiramphidae) (New species of fishes from the Coatzacoalcos River, Mexico)
- BA 35E (16) 46184. *Xiphophorus* and *Hyporhamphus*.
- MF
61-01267
- D'Ancona, U.** (1959)
Arch. Anat. micr. Morph. exp., 48 bis : 61-71
 Distribution of the sexes and environmental influence in the European eel
- BA 35E (16) 46186.
- M
61-01268
- Winn, H. E. & J. E. Bardach** (1960)
Zoologica, N.Y., 45 (1) : 29-34
 Some aspects of the comparative biology of parrot fishes at Bermuda
- BA 35E (16) 46191. Differences in egg shape, chromatophores and social organization are given as generic characters of *Sparisoma* and *Scarus*. Various spp. discussed in relation to sexual dichromatism. Information given on breeding seasons, and all common spp. of parrot fish in Bermuda breed during the summer. Reproductive habits.
- M
61-01269
- Hale, H. M.** (1959)
Rec. S. Aust. Mus., 13 (3) : 333-8
 The pigmy sperm whale off southern Australian coasts
- BA 35E (16) 46245. Data concerning two young *Kogia breviceps* (Blainville) stranded on the shore of St. Vincent Gulf.

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Ceylon, Govt. Press, 82 p.

Administration report of the Director of Fisheries for 1958. *En Tam Sin*

- Riedl, R. et al.** (1959) M
61-01271
Pubbl. Staz. zool. Napoli, 30 Suppl.: 1-787

Results of the Austrian Tyrrhenian expedition 1952

BA 35A (5) 12000. Deals with Anthozoa, describing 13 spp. of which one, *Cladocera cespitosa* is new. Surveys the fish fauna and indicates their spread between the free littoral zones and the caves of the Tyrrhenian shore. Names spp. of harpacticoid copepods from the sea floor, a new sp. being named *Tergastes riedli*. The female of *Paramesochra coelobs* and the male of *Esola rosei* are described for the first time. Details 82 spp. of polychaetes obtained from the littoral zone, 2 new and 3 others found for the first time in the Mediterranean. Finds that plant representatives of region can be grouped into 8 communities dominated by one of the following, *Peyssonelia squamaria*, *Halimeda tuna*, *Corallina mediterranea*, *Pterocladia pinnata*, *Halopithys incurvus*, *Digenea simplex*, *Cystoseira discora* and *Cladophora prolifera*. Finds 34 types of Porifera and shows that these account for a considerable proportion of the animal life of the grottos and caves. Notes on Turbellaria *Arcoophora*, *Prolecithophora*, and *Seriata* and *Neohabdocoela*.

- Swarup, H.** (1957) MF
61-01272
J. Univ. Saugar, 6 : 99-100

Apparatus for rearing early stages of fish

BA 35A (5) 12060. Describes apparatus which consists of 24 egg containers, a deep tray and a system of jets which forms continuous current of water over the eggs.

- Wagner, E. D. & L. W. Chi** (1959) F
61-01273
Trans. Amer. micr. Soc., 78 (4) : 421-8

Methods on the rearing of the snail *Oncomelania* spp.

BA 35A (5) 12061.

- Withrow, R. B. & C. C. Moh** (1958) MF
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Proc. int. Conf. peacef. Uses atom. Energ., 22 (2) : 400-3

Nonionizing radiant energy as a mediating factor controlling radiation damage in plants and animals

BA 35A (5) 12310. Account of observations on the nullifying or reversing effect of red energy. Incl. observations on *Lebistes* sp.

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- Schöne, H.** (1957)
Z. vergl. Physiol., 39 (3) : 235-40
Kurssteuerung mittels der Statocysten (Messungen an Krebsen) (Control of course with statocysts—Measurements on Crustacea)
- BA 35A (5) 12319. Account of quantitative investigation of the connection between statocyst function and control of swimming path in the shrimp *Crangon vulgaris* and *Palaemonetes varians*.
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61-01276
- Bird, C. D.** (1959)
Proc. Okla. Acad. Sci., 39 : 5
A technique for determining relative abundance and distribution of aquatic plants
- BA 35A (5) 12376. A means of measuring aquatic vegetation by pacing shoreline and, at specific intervals, stopping and recording all vascular plants visible in water at right angles to shore. Compares system and discusses advantages and drawbacks.
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- Chapman, V. J.** (1959)
Vegetatio, 8 (4) : 215-34
Salt marshes and ecological terminology
- BA 35A (5) 12382. Seven major geographic series are: Arctic, North European, Mediterranean, Western Atlantic, Pacific American, Sino-Japanese and Australasian. Associates are briefly described and named by their dominants. Nine orders are described with their alliances and associations.
- M
61-01278
- Anon.** (1961)
Chem. Engng., 68 (2) : 86, 88
Add three to saline water technology
- WPA 34 (7) 1169. Three new methods for the demineralization of sea water are described.
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- Brown, A. D.** (1960)
J. gen. Microbiol., 23 : 471-85
Some properties of a gram-negative heterotrophic marine bacterium
- WPA 34 (7) 1197.
- F
61-01280
- Sládečková, A.** (1958)
Sci. Pap. Inst. chem. Tech., Prague, Fac. Tech. Fuel Wat., 2 (2) : 121-50
The hydrobiology of the Hirschberg Lake
- WPA 34 (7) 1216. Describes hydrobiological investigations with special reference to variations in the algal groups over a period of 16 months.

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 O metode avtomaticheskogo ucheta migriruiushchei ryby po razmernym gruppam (Automatic estimation of fish migration according to size groups).
 En
- Description of a non-contact automatic electrone device for estimating size groups of fishes migrating through fish-passing constructions.
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- Angelescu, V.** (1960)
 Buenos Aires, 71 p.
 Operación Centolla en el Atlantic Sur (Operation Centolla in the South Atlantic)
- Hydrological and meteorological characteristics of the zones of experimental fishing, results of catches of the crab, *Paralomis verrucosus*, hake and other spp. of fish, surface and bathymetric distribution of spp. of economic value.
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- Kirk, R. et al.** (1959)
Ann. trop. Med. Parasit., 53 (1) : 97-102
 Onchocerciasis in the Sudan Republic
- BA 35E (4) 11774. Summarizes present knowledge and distribution which coincides with the distribution of *Simulium damnosum*.
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- Christen, H. R.** (1959)
J. Protozool., 6 (4) : 292-303
 New colorless Eugleninae
- BA 35E (4) 11799. Describes *CALYCIMONAS physaloides* nov. gen. nov. sp., *Astasia acus*, a sp. related to green *Euglena acus*; *A. edax*; *Petalomonas striata*; *Hyalophacus caecus*.
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- Downs, L. E.** (1959)
J. Protozool., 6 (4) : 285-92
 Mating types and their determination in *Stylonychia putrina*
- BA 35E (4) 11800.
- F
61-01286
- Rossmann, D. A.** (1959)
Quart. J. Fla. Acad. Sci., 22 (2) : 121-4
 Protozoan fauna of a limestone sinkhole in the north-central Florida
- BA 35E (4) 11804. Account of sampling of three different microhabitats, each containing distinctive protozoan fauna.

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- Kinsel, G. V.** (1958)
Toronto, Fur Trade Journal of Canada, 231 p.
The theory and practice of nutria raising
- With respect to *Myocastor coypus*, covers the general biology, classification distribution, habits, anatomy etc.; fur; grading; genetics; farming; feeding; breeding; pelting; marketing; diseases; farm records.
- F
61-01288
- Kinsel, G. V.** (Lecomte, L. Transl.) (1961)
Paris, Ed. JEP, 520 p.
Théorie et pratique de l'élevage du *Myocastor-nutria-ragondin* (The theory and practice of nutria raising)
- Fr and NE 61-01287. Supplemented by a chapter on the *Myocastor* colony raising.
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- Berry, S. S.** (1958)
Rep. Amer. malac. Un., 1858 : 36
Notes on the natural history of *Nomaeopelta*, a remarkable genus of limpets
- BA 35E (4) 11891. Genus is based on elaborate sensory equipment of mantle margin, with type genus being *Acmaea dalliana* Pilsbry, 1891.
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Rep. Amer. malac. Un., 1958 : 40
Tiphyocerma, a strange gastropod
- BA 35E (4) 11892. Calls attention to a new genus and sp. of snail, *Tiphyocerma preposterum*.
- M
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- Burch, J. Q.** (1958)
Rep. Amer. malac. Un., 1958 : 35
Taxonomic problems in the Conidae
- BA 35E (4) 11893. Discusses taxonomic confusion of conidae; points out that shell characters alone are not sufficient and that use of radular characters results in a different grouping of spp.
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- Cate, C. N.** (1958)
Rep. Amer. malac. Un., 1958 : 36
Cypraea mus needs attention
- BA 35E (4) 11894. Reports that doubt has been removed concerning true habitat of *C. mus* and its range has been established in the coastal waters of Colombia and Venezuela.

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Rep. Amer. malac. Un., 1958 : 37
 Some notes about *Modiolus*

BA 35E (4) 11895. Considers identification of spp. of *Modiolus* on west coast of North America.

- Clarke, A. H., Jr. (1958)** M
61-01294
Rep. Amer. malac. Un., 1958 : 3
 Preliminary report on abyssal Atlantic molluscs from the 'Theta' and 'Vema' expeditions

BA 35E (4) 11896. Materials collected indicate that abyssal molluscs are small, pale and fragile; most bivalves are detritus feeders; gastropods are largely predators; and characteristic groups incl. the Trochidae (*Seguenzia*) Turridae, Malletiidae, Ledidae, Poromyidae, Cuspidaridae, Solenogastres, and scaphopods.

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 Washington, D.C., 231-480

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- Fitch, J. E. (1958)** M
61-01296
Rep. Amer. malac. Un., 1958 : 35
 The bean clam, *Donax gouldii*

BA 35E (4) 11899. Discusses distribution and biology as it occurs on exposed sandy beaches from San Luis Obispo County, South California.

- Gregg, W. O. (1958)** MF
61-01297
Rep. Amer. malac. Un., 1958 : 39
 A technique for preparing in tota (sic) mounts of molluscan anatomical dissections

BA 35E (4) 11900. Describes technique for preparing in toto mounts.

- Herrington, H. B. (1958)** F
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Rep. Amer. malac. Un., 1958 : 22
 Remarks on Sphaeriidae

BA 35E (4) 11901. Reviews taxonomy of the Sphaeriidae.

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Rep. Amer. malac. Un., 1958 : 25-6
 The primitive history of some salt marsh snails
- BA 35E (4) 11908. Discusses features of life history of Melampidae incl. *Detracia floridana* Pfeiffer, *Melampus* (*Micromelampus*) *bidentatus* Say of the Atlantic coast of US, and *Melampus* (*Micromelampus*) *olivaceus* Carpenter from California.
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61-01300
- Morrison, J. P. E.** (1958)
Rep. Amer. malac. Un., 1958 : 26
 Brackish water genera of Mactridae
- BA 35E (4) 11909. Gives taxonomic characters for the genera *Rangia*, *Rangianella* and *Mulinia*.
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- Walter, H. J.** (1958)
Rep. Amer. malac. Un., 1958 : 16-7
 The morphology of *Lymnaea emarginata serrata* Haldeman with remarks on the systematics of lymnaeids
- BA 35E (4) 11916.
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61-01302
- Fields, H. M.** (1959)
Quart. J. Fla Acad. Sci., 22 (1) : 32-40
 A comparison of *Trachinotus cayennensis* with *T. carolinus* and *T. paitensis*
- BA 35E (4) 11922. Specimens taken off the coasts of Venezuela, British Guiana and Surinam.
- M
61-01303
- Gehringer, J. W.** (1959)
Quart. J. Fla Acad. Sci., 21 (3) : 235-40
Leptocephalus of the Atlantic tarpon, *Megalops atlanticus* Valenciennes, from offshore waters
- BA 35E (4) 11923. Stage of development for the tarpon is described, figured, and compared with the closely-related East-Indian tarpon, *M. cyprinoides* (Broussonnet); the bonefish, *Albula vulpes* (Linnaeus); and the ten-pounder, *Elops saurus* Linnaeus.
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- Strahan, R.** (1959)
J. roy. Soc. W. Aust., 42 (2) : 49-52
 The status of *Yarra singularis* and *Geotria australis* (Petromyzontidae)
- BA 35E (4) 11925. Reviews history of these names, with review of the characters ascribed to the spp. Concludes that "Yarra" is the "velasia" stage of *Geotria*, and that *G. australia* Gray = *Y. singularis* Castelnau.

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Paris, Presses Universitaires de France, 541 p.

Océanographie biologique et biologie marine—Tome 1. La vie benthique
(Biological oceanography and marine biology—Vol. 1. Benthic life)

Based on the lectures to the students of Oceanography of the Faculty of Marseille. Contains chapters on: general introduction to marine habitat and zonation, aphytic benthos, phytic benthos; biology of benthic animals; unities of population of the benthic division, tentative classification for the benthic communities of the phytic system.

- Popovskaia, G. I.** (1960) F
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Izv. sib. Otd. Akad. Nauk S.S.S.R., (3) : 71-80

O fitoplanktone del'tovykh protok r. Selenga (On the phytoplankton in the currents of the delta of the River Selenga)

- Komarenko, L. E.** (1960) MF
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Izv. sib. Otd. Akad. Nauk S.S.S.R., (3) : 81-96

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- Titova, S. D. & E. G. Skripchenko** (1960) F
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Izv. sib. Otd. Akad. Nauk S.S.S.R., (3) : 97-107

Parazitofauna ryb verkhnei Obi v svyazi s gidrostroitel'stvom (The parasite fauna of fishes of the upper Ob in connection with the hydroconstructions)

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New Scient., 8 (205) : 1042

Protests stop dumping of radioactive waste

Note on how protests by marine scientists caused French Atomic Energy Commission to reconsider proposal to sink barrels of radioactive waste in Mediterranean between French coast and Corsica; refers also to disposal in the Rhone and other French rivers.

- Anon.** (1960) M
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New Scient., 8 (205) : 1065

Dead white sea

Unusual whitening of the Dead Sea has suggested possibilities of controlling evaporation from large areas of water other than by covering surface with cetyl alcohol. A different approach might be based on infra-red absorption.

- Clegg, J.** (1960) F
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A plea for village ponds

They are ideal sites for zoological, botanical and ecological studies, and a movement for their conservation has begun in UK.

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Plant. Physiol., 34 : 380-9
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Biochem. biophys. Acta, 37 : 280-7
 Growth of algae in deuterium oxide
 IABS 18 (2) 4119. *Chlorella vulgaris*, *C. pyrenoidosa* and *Scenedesmus obliquus* can be grown in media made up with 99.6% D20.
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Canad. J. Bot., 37 : 75-7
 Determination of K-carrageenin as a factor in the classification of the Rhodophyceae
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Pubbl. Staz. zool. Napoli, 31 (1) : 1-14
 Structure of the fin and its regeneration in *Spadella cephaloptera*
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 Ligament of Lucinacea (Eulamellibranchia)
 IABS 18 (2) 4222.
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J. exp. Biol., 37 : 11-27, 28-45
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 IABS 18 (2) 4229.
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 IABS 18 (2) 4231.
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 IABS 18 (2) 4231.
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- Parsons, M. C.** (1959)
J. Morph., 104 : 479-525
 The midgut of aquatic Hemiptera
 IABS 18 (2) 4237. Low mitotic rate in MG I of *Pelacorix* and *Notonecta* discussed.
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61-01322
- Chaung, S. H.** (1960)
Quart. J. micr. Sci., 101 : 9-18
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 pod, *Crania anomala*
 IABS 18 (2) 4238.
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Acta physiol. polon., 10 : 467-75
 Effect of hunger on alimentary instrumental conditioned reflexes in fishes
 IABS 18 (2) 4239. Reflexes induced in six crucian carp using Prazdnikova's method.
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 Chapters on: Skipjack; Mackerel; Squid. Fishing methods and general arrangements.
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 Review of related papers; chapters on: Stern handling versus side handling; Hauling speed and winch power; Smaller stern trawlers; Future developments; Command of operations.
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 Construction—Scantlings—Structural testing of small craft. Fr Es
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 Chapters on: Hull timbers; Determination of scantlings; Fastenings; Determination of fastenings.
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 Construction—Scantlings—Discussion. Scantlings
 Chapters on: Good boatbuilding practices; Comparison of wooden scantling regulations; Resistance of wooden keel, stem and stern post; Steel scantlings; Author's replies.
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 Construction - New materials—Glass reinforced plastic hulls. Fr Es
 Chapters on: The raw materials of Polyester/Mat laminate; Moulds; Temperature control; Inspection; Strength; Rigidity; Hollow skegs; Weight; Tanks and engine foundation; Repair; Cost of hulls.

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 Construction—Fish holds—The care of the catch. Fr Es

Chapters on: Why and how fish go bad; Temperature control; Care and cleanliness in handling.

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 Construction—Fish holds—The fish room: engineering and architecture.
 Fr Es

Chapters on: Large fishing boats: Insulation; Features conducive to efficient and safe working; Partitions, shelving, etc.; Coatings and linings; Materials for fish rooms; Small fishing craft: Longliners; Larger longliner, small trawlers and cutters.

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Slavin, J. W. (1960)
In 61-01336 : 227-33
 Construction—Fish holds—Icing versus freezing. Fr Es

Chapters on: The trawlers ' Delaware ' and ' Northern Wave ' ; Handling aboard the vessel; Storage on the vessel; Unloading and handling ashore; Quality aspects; Factors affecting costs; Overall evaluation.

M
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 Construction—Fish holds—Tuna freezing. Fr Es

Chapters on: Methods of preserving the catch; Refrigerating capacity and piping; Insulation.

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Construction--Installation of machinery—Propulsion engines for fishing boats. Fr Es

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Chapters on: Comparison of UK West Coast steam and diesel trawlers; Example of machinery on a diesel trawler; Maintenance and operation of diesel main engine; Winch engine; Auxiliaries.

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Construction—Installation of machinery—Recent trawlers fitted with multiple reduction gears. Fr Es

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Construction—Installation of machinery—Vibration in trawlers. Fr Es

Chapters on: The modes of vibration; The nature of excitation; Determination of vibration frequencies; Estimation of vibration frequencies.

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 Construction—Installation of machinery—Discussion
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 Construction—Costs of construction—An analysis of U.S. fishing boats: dimensions, weights and costs. Fr Es
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 Construction—Costs of construction—Discussion
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 Sea behaviour—Resistance and propulsion—Model tests of some fishing launches. Fr Es
- Chapters on: Description of facilities and apparatus; Description of models tested; Test results.
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In 61-01336 : 348-52
 Sea behaviour—Resistance and propulsion—Model tests of small simplified boats. Fr Es
- Chapters on: Model tests; Full-scale test; Comparison with similar sized boats.
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 Sea behaviour—Resistance and propulsion—An advanced hull and propeller design. Fr Es
- Chapters on: Model tests of five recent fishing boats; The design of an improved hull form; Propulsive factors affecting hull form; Resistance and stream flow tests; Effective powers for other sizes of vessel. Velocities in the nozzle; Design of the propeller; Self-propulsion tests; Delivered powers for other sizes of vessel; Trawling tests.

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In 61-01336 : 364-9
Sea behaviour Resistance and propulsion—Resistance of trawlers. Fr Es
Chapters on: Methodical series resistance tests with trawler models; Series A—systematic variation of midship-section area; Series B—systematic variations in proportions.
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Sea behaviour Resistance and propulsion—Statistical analysis of resistance data for trawlers. Fr Es
Chapters on: Theory of minimal variance; Regression equation for trawler data; Practical uses of the regression equation.
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Sea behaviour—Resistance and propulsion—The loads imposed by trawling gear. Fr Es
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Sea behaviour—Seakindliness—Behaviour of trawlers at sea—2. Fr Es
Chapters on: Programme of investigations and the measuring instruments; Power output and speed in good weather; The ship in a seaway; The stability; Rolling and pitching.
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In 61-01336 : 418-21
Sea behaviour—Seakindliness—Remarks on the shape of Dutch coastal fishing boats. Fr Es
Chapters on: Speed and seakindliness; Comparison with finer boats; Comparison with fuller boats; Fuel oil and lubricating oil consumption.

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 Sea behaviour—Seakindliness—Tests with a trawler model in waves. Fr Es
- Chapters on: Particulars of ship and model test conditions; Results when trawling; Results when sailing.
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 Sea behaviour—Seakindliness—The prismatic coefficient. Fr Es
- Chapters on: Todd's steam drifter tests; NPL motor drifter tests; Graff and Heckscher's trawler tests; Allan's drifter tests; FAO tests; Self-propulsion tests; Wave tests; Trawling tests.
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 Sea behaviour—Seakindliness—Trawler forms with bulbous bows. Fr Es
- Chapters on: Resistance characteristics in calm water; Propulsion characteristics in calm water; Performance in rough water.
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 Sea behaviour—Seakindliness—Tests of fishing boat models in waves. Fr Es
- Chapters on: Methods and apparatus used in the experiments; Effect of bow section form.
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 Sea behaviour—Seakindliness—Comments on hull design of fishing boats. Fr Es
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 Sea behaviour—Stability—A method to determine freeboard in relation to stability. Fr Es
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 Sea behaviour—Stability—Notes on stability. Fr Es
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 Sea behaviour—Stability—Transverse stability of tuna clippers. Fr Es
- Chapters on: Effect of trim on transverse stability; The transverse stability on longitudinal waves.
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In 61-01336 : 496-504
 Sea behaviour—Stability—Safety from capsizing. Fr Es
- Chapters on: Capsizing; Dimensioning of righting levers; Specification of moments; The righting levers; Alterations of the righting levers due to waves; Safety allowance; Stability criteria; Measuring stability.
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 Sea behaviour—Safety at sea—Causes of accidents. Fr Es
- Chapters on: Accident types; Investigation by model.
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In 61-01336 : 511-14
 Sea behaviour—Safety at sea—Formation of ice on trawlers. Fr Es
- Chapters on: Head to wind; Wind 30° on the bow; Stern to wind; General comment.
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In 61-01336 : 515-82
 Sea behaviour—Discussion
- Chapters on: Small boat resistance; Influence on nozzles; Bulbous bows; Statistical analysis of resistance; Fishing gear resistance; Sea behaviour theory; Observations of behaviour at sea; Model tests in waves; General design; Author's replies; The Chair's summing up; Stability; Safety at sea.

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Productivity—Symposium of boat types—Short distance fishing. Development of a boat for India's surf coasts. Fr Es
- Chapters on: Surf conditions; Development—first phase; Conclusions from first experiments; Development—2nd phase; Experiences from the tests with BB-57; Prototype 1958-BE58; Future work—mass production of BB-59.
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Productivity—Symposium of boat types—Short distance fishing. Commercial outboard fishing craft. Fr Es
- Chapters on: Florida mullet gillnet skiff; River gillnet tender; Oyster garvet; Salmon net tender; New England lobster boat; Salmon trolling dories.
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- Foderá, V., R. Sará & A. Cambiano** (1960)
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Productivity—Symposium of boat types—Short distance fishing. Trap-net boats and harpoon boats. Fr Es
- Chapters on: Tuna trap-net boats; Swordfish (*Xiphias gladius*) harpoon boats.
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- Ringhaver, L. C.** (1960)
In 61-01336 : 615-23
Productivity—Symposium of boat types—Medium distance fishing. Design and mass production of shrimp trawlers. Fr Es
- Chapters on: General arrangement; New trawling gear; production; Engine output and cruising range; Construction materials; Crew's comfort; Mass production; Cost and finance; Economics.
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- Corlett, E. C. B. & J. Venus** (1960)
In 61-01336 : 624-30
Productivity—Symposium of boat types—Medium distance fishing. Development of a trawler of unorthodox design. Fr Es
- Chapters on: Design; Construction and operation; Licensed building; Future developments.
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In 61-01336 : 631-7
Productivity—Symposium of boat types—Medium distance fishing. The Netherlands post-war fishing fleet. Fr Es
- Chapters on: Shrimp trawler; Motor cutter; Trawler-drifter; Trawler.

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In 61-01336 : 638-53

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Productivity—Symposium of boat types—Long distance fishing. Design studies for stern trawlers. Fr Es

Chapters on: Influence of the length of the gear; Manoeuvring of the ship during hauling and shooting; Fish holds and fish landing; Transport of fish from stern to hold; Fish meal plant; Complement and accommodation; Life-saving appliances; Classification and freeboard; Choice of main engines; Lines and stability; Trawl winches; 'Heinrich Meins'; 'Carl Kämpf'; 'Sagitta'; Performance.

M

Gueroult, E. R. (1960)
In 61-01336 : 654-60

61-01395

Productivity—Symposium of boat types—Long distance fishing. French deep sea salt cod trawlers. Fr Es

Chapters on: Introduction of diesel propulsion; Modern trawlers; Cargo capacity and stability; Short description of typical vessels.

M

Takahashi, S. (1960)
In 61-01336 : 661-7

61-01396

Productivity—Symposium of boat types—Long distance fishing. Diesel whale catchers. Fr Es

Chapters on: Increase of boat size and speed; New devices on catchers; Example of a modern Japanese diesel catcher; Comparison of diesel and steam propulsion.

M

Anon. (1960)
In 61-01336 : 668-707

61-01397

Productivity—Symposium of boat types—Discussion.

Chapters on: Surf boats; Short distance fishing; Medium distance fishing; Long distance fishing.

M

Swiecicki, J. (1960)
In 61-01336 : 708-14

61-01398

Productivity—Choice of size and type—Choice of boat type and size for Polish deep-sea fisheries. Fr Es

Chapters on: Aims of study; Subject of study; Range of study; Method of choosing the optimum fishing boat; General results.

M

Eddie, G. C. (1960)
In 61-01336 : 715-22

61-01399

Productivity—Choice of size and type—Propulsion and processing machinery for deep-sea trawlers. Fr Es

WFA 11 (5) : 9. Chapters on: Types of machinery; Design of diesel-electric equipment; Economics of speed; Economics of preservation.

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- Sato, S.** (1960) M
61-01400
In 61-01336 : 723-34
 Productivity—Choice of size and type—Modern factory ships in Japan.
 Fr Es

Chapters on: Basic design; Fishing operations; Selection of types; Size of ships; Fuel and freshwater; Arrangement of factories; Conveyors; Refrigerating machinery; Freezing equipment; Cooling equipment for refrigeration of cargo holds; Insulation; Canning systems.

- Anon.** (1960) M
61-01401
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 Productivity—Discussion

Chapters on: Choice of size and type; Fishing boat of 1975.

- Ropelewski, A.** (1959) M
61-01402
Prace Inst. morsk. Gdynia, 10A : 7-15
 Trzydziestopięciolecie polskich badań na morzu (Thirty five years of Poland's exploration of the sea). En

- Demel, K. & Z. Mulicki** (1959) MF
61-01403
Prace Inst. morsk. Gdynia, 10A : 19-33
 Studia ilościowe nad fauna przydenna południowego Bałtyku (Quantitative studies on the near-bottom southern Baltic fauna). En Ru

Quantitative study of vagile epibenthos and its relations to the nature of bottom and hydrographical conditions.

- Filarski, J.** (1959) MF
61-01404
Prace Inst. morsk. Gdynia, 10A : 35-52
 Obserwacje hydrograficzne na południowym Bałtyku w latach 1953-1955 (Hydrological observations in the southern Baltic region in 1953-1955). En Ru

Description of hydrographical conditions in southern Baltic in the years 1953 to 1955.

- Filarski, J. et al.** (1959) MF
61-01405
Prace Inst. morsk. Gdynia, 10A : 53-67
 Aparatura do zdalnego pomiaru temperatury i zasolenia wody morskiej (Apparatus for afar measuring of temperature and of sea water salinity). En Ru

Description of the apparatus for *in situ* measurement of temperature and salinity—conductively method—and the results of test of the apparatus in the Baltic Sea.

MF

61-01406

Mańkowski, W. (1959)*Prace Inst. morsk. Gdynia*, 10A : 69-129

Badania makroplanktonu południowego Bałtyku w latach 1952-1955
(Macroplankton investigations of the southern Baltic in the period 1952-55).
En Ru

Discussion of the influence of varying hydrographical conditions on the occurrence and abundance of fish eggs and larvae and other macroplankton organisms and account of their abundance from 1952 to 1955 in southern Baltic Sea.

MF

61-01407

Mańkowski, W., S. Rutkiewicz & P. Ciszewski (1959)*Prace Inst. morsk. Gdynia*, 10A : 131-61

Wstępne studia nad produkcją planktonu w południowym Bałtyku (Preliminary studies on the plankton production in southern Baltic). En Ru

Quantitative seasonal and areal distribution of plankton in southern Baltic from 1947 to 1955 and estimates on the composition of the plankton by groups of spp.

MF

61-01408

Mulicki, Z. (1959)*Prace Inst. morsk. Gdynia*, 10A : 163-74

Warunki środowiskowe wieloszczeta *Harmothoe sarsi* Kinberg w Bałtyku
(The polychaet *Harmothoe sarsi* Kinberg and its environments in the Baltic Sea). En Ru

Depth and geographical distribution of the sp. and its temperature, salinity and oxygen requirements in its natural environment.

MF

61-01409

Piątek, W. (1959)*Prace Inst. morsk. Gdynia*, 10A : 175-92

Barwa i przezroczystość wody morskiej w pobliżu Gdyni w 1954 R. (Colour and transparency of sea water near Gdynia in 1954). En Ru

Seasonal variation of colour and transparency, their dependence on winds and cloudiness and the relation between transparency and colour.

MF

61-01410

Ringer, Z. (1959)*Prace Inst. morsk. Gdynia*, 10A : 193-214

Próba oszacowania biomasy flory litoralnej zalewu wiślanego na podstawie badań przeprowadzonych w 1955 R. (Experiments aiming to classify the litoral flora biomass in the Vistula Firth on the basis of investigations carried on in 1955). En Ru

Spp. of aquatic plants in the area, their communities and quantities.

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 Échinodermes de La Guyane Française (Crinoides, astérides, ophiurides, échinides, holothurides) (2^e note) (Echinoderms of French Guiana—2nd note)
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- BA 35E (18) 51653.
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 Sessile Tunicata (Asciadiacea)
- BA 35E (18) 51648. Ascidiars from western Greenland are described. 26 spp. are listed of which one, *Synoicum vibei*, is new. Geographical distribution is discussed and the spp. are compared with those from eastern America, Europe, the Pacific and elsewhere.

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-078me to 61-157me

- FAO.** 14/9/59 M
61-078me
Rome, Italy. 8 days
World scientific meeting on the biology of sardines and related species
- N.Y. Academy of Sciences.** 15/5/61 G
61-079me
New York, N.Y., U.S.A. 2 days
Conference on "Blood groups in infrahuman species"
- Office of Naval Research.** 30/3/61 M
61-080me
Bimini, Bahamas. 3 days
Conference on marine animal sounds
- Canada. Ministry of Agriculture.** 23/10/61 MF
61-081me
Montreal, Canada. 6 days
Resources for tomorrow conference
Will consider water and fisheries resources management in Canada.
- Ghana Science Association.** 31/3/62 MG
61-082me
Legon, Ghana. 4 days
Conference on "Science in the development of Ghana"
Incl. among the papers presented one on "Seas and oceans" and one on
"Outboard-motor as a prime mover in the development of fisheries in Ghana".
- EIFAC.** 7/5/62 F
61-083me
Paris, France. 6 days
2nd Session
Will incl. field trips. Agenda will cover a review of European inland
fisheries problems; review of some principal European spp.; preparation of a
European directory for inland fisheries institutes and water pollution problems.
- British Association for the Advancement of Science.** Aug./61 G
61-084me
Norwich, U.K.
Meeting

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Phycological Society of America. 28/8/60 MF
61-085me
Stillwater, Okla. 6 days
15th Annual meeting

In conjunction with 60-134me.

Committee of International Congresses on Metallic Corrosion. 10/4/61 MF
61-086me
London, U.K. 6 days
1st International congress on metallic corrosion

Papers read incl. 61-12787, 61-12788 and 61-12789.

American Geophysical Union. 18/4/61 MF
61-087me
Washington, D.C. 4 days
42nd Annual meeting

AAAS, Alaska Division. 28/8/61 MF
61-088me
College, Alaska. 5 days
12th Alaskan science conference

AIBS. 28/10/61 M
61-089me
Princeton, N.J., U.S.A. 5 days
1st Conference on marine biology

AIBS, Shark Research Panel. Aug./61 M
61-090me
Honolulu, Hawaii.
Conference on anti-shark measures

Review of anti-shark measures by world regions; Evaluation of anti-shark measures proposed and/or currently employed; Methods of testing anti-shark devices and agents. Agencies supporting research related to the shark hazard problem; Role of Shark Research Panel as a co-ordinating agency.

American Meteorological Society. 18/6/61 G
61-091me
Davis, Calif., U.S.A. 6 days
193rd National meeting

Atomic Energy Commission/AIBS. 11/9/61 MF
61-092me
Colorado State University, Fort Collins, Colo., U.S.A. 5 days
Symposium on radioecology

Program topics include occurrence and effects of nuclides in freshwater and marine environments, radioecological techniques, instrumentation, fallout and radiobiology.

MEETINGS

- | | |
|--|---------------------------------|
| <p>CAB, Animal Nutrition. 14/10/61
 London, U.K. 3 days
 Informal conference on machine retrieval of information on nutrition and food technology
 Incl. discussion of a draft classification, which contains specific reference to aquatic organisms; collaboration with FAO Fisheries Division.</p> | <p>MF
 61-093me</p> |
| <p>CPCERMPS. 2/10/61
 Santiago, Chile.
 Extraordinary meeting</p> | <p>M
 61-094me</p> |
| <p>Canadian Federation of Biological Societies. 31/5/61
 Guelph, Ont. 3 days
 Meeting</p> | <p>G
 61-095me</p> |
| <p>Centre National de la Recherche Scientifique. 24/7/61
 Montpellier, France. 3 days
 International colloquium on the "Physiology of the <i>Hippocampus</i>"</p> | <p>M
 61-096me</p> |
| <p>FAO. 11/9/61
 Moscow, USSR. 5 weeks
 Seminar and study tour for fishery administrators from the Indo-Pacific and Mediterranean regions
 Amendment to 61-050me.</p> | <p>MF
 61-097me</p> |
| <p>FAO. 23/8/61
 Tulagi, British Solomon Islands Protectorate. 9 weeks
 Training centre on fishing methods and mechanization for South Pacific Commission countries and territories
 Amendment to 61-052me</p> | <p>M
 61-098me</p> |
| <p>FAO. 19/9/61
 Washington, D.C., U.S.A. 9 days
 "Fish in nutrition" meeting
 Amendment to 60-262me.</p> | <p>M
 61-099me</p> |
| <p>FAO. 18/12/61
 Rome, Italy. 4 days
 Consultants' meeting on marine biogeography
 Amendment to 61-051me. Postponed until further notice.</p> | <p>M
 61-100me</p> |
| <p>FBA (UK). 20/6/61
 London, U.K. 1 day
 Annual general meeting</p> | <p>F
 61-101me</p> |

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- IAEA.** 11/9/61 M
61-102me
Vienna, Austria. 5 days
Meeting of joint scientific and legal panel on legal implications of disposal of radioactive waste into the sea
- ICSU/SCOR.** 14/8/61 M
61-103me
New Delhi, India. 4 days
Meeting of zooplanktologists to discuss proposal for a biological centre and zooplankton progress to be carried out in connection with the Indian Ocean investigations
- ICSU/SCOR.** 1/11/61 M
61-104me
Monaco. 3 days
5th Meeting

Amendment to 60-294me.
- IOF.** 15/11/61 M
61-105me
Miami Beach, Fla., U.S.A. 1 day
6th International gamefish conference

Meeting of anglers, guides and biologists to discuss problems dealing with salt-water game fishes.
- IPFC, Executive Committee.** Sept./61 MF
61-106me
Rangoon, Burma.
33rd Meeting
- Institute of Navigation (U.K.).** 25/10/61 M
61-107me
London, U.K. 1/2 day

Duke of Edinburgh's lectures: "Navigation and the science of the sea", by G. E. R. Deacon.
- International Phycological Society.** 23/9/61 MF
61-108me
Biarritz, France. 1 day
1st Meeting

In association with 60-179me.
- Marine Biological Laboratory, Woods Hole.** 2/7/61 M
61-109me
Woods Hole, Mass. 6 days
Meeting
- NATO Advanced Study Institutes Programme.** Aug./61 M
61-110me
Reykjavik, Iceland.
Symposium on North Atlantic biota and their history

MEETINGS

- | | |
|--|-------------------------|
| <p>Oak Ridge Institute of Nuclear Studies. 6/11/61
 Oak Ridge, Tenn., U.S.A. 12 days
 Course on the application of nuclear methods to oceanography</p> | <p>M
 61-111me</p> |
| <p>Oceanographic Society of Japan. 8/11/61
 Tokyo, Japan. 2 days
 General meeting of the society on its 20th anniversary

 In association with 61-113me.</p> | <p>M
 61-112me</p> |
| <p>Oceanographic Society of Japan. 10/11/61
 Tokyo, Japan. 2 days
 International symposium on deep-sea research

 In association with 61-112me.</p> | <p>M
 61-113me</p> |
| <p>Operations Research Society of America. 8/11/61
 San Francisco, Calif., U.S.A. 3 days
 20th National meeting</p> | <p>G
 61-114me</p> |
| <p>Paraguay, Ministerio de Agricultura y Ganadería. 24/7/61
 Asunción, Paraguay. 6 days
 Primer seminario nacional de caza y pesca [First national seminar on game and fishery]</p> | <p>MF
 61-115me</p> |
| <p>Sweden, Fisheries Division. 11/8/61
 Helsingborg, Sweden. 17 days
 Maritime exposition</p> | <p>M
 61-116me</p> |
| <p>Thunderbird Enterprises Ltd. 31/10/61
 London, U.K. 4 days
 2nd Exhibition on effluents and treatment of waters</p> | <p>F
 61-117me</p> |
| <p>UNESCO. 25/10/61
 Paris, France. 35 days
 6th Session of the executive board</p> | <p>G
 61-118me</p> |
| <p>UNESCO. 20/11/61
 Concepción, Chile. 6 days
 Seminario latino-americano sobre estudios oceanográficos [Latin-American seminar on oceanographic research]

 Agenda: Physico-chemical oceanography—Present status (Z. Popovici); Physics and chemistry of the sea; Hydrodynamics (I. Emilsson); Marine geology (P. Roa Morales). Marine biology—Present status (E. Rioja); Plankton studies (M. Vannucci); Algae (O. Kühnemann); Marine invertebrates (R. Ringuelet); Crustaceans (N. Bahamonde); Molluscs (J. Stuardo); Marine vertebrates (V. Angelescu); Aquatic mammals (I. Ximenez); Physiology of marine organisms (P. Sawaya); Proposals for regional projects (F. de Buen).</p> | <p>M
 61-119me</p> |

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

UNESCO, International Advisory Committee on Bibliography, Documentation and Terminology. 25/9/61 G
61-120me
Paris, France. 5 days
1st Session

Zoological Society of London. 3/5/61 MF
61-121me
London, U.K. 1 day
7th Whole-day symposium on "Biological acoustics"

Zoological Society of London/ASAB. 8/11/61 MG
61-122me
London, U.K. 2 days
8th Symposium of the Society, jointly with ASAB, on "Evolutionary aspects of animal communication" and "Imprinting and early learning"

Latter part will incl. paper by M. J. Wells on "Early learning in *Sepia*".

UNESCO. 27/11/61 M
61-123me
Viña del Mar, Chile. 2 days
I Reunion de directores de laboratorios costeros latino-americanos [1st Meeting of directors of Latin-American coastal laboratories]

UNESCO. 23/11/61 M
61-124me
Concepción, Chile. 2 days
II Seminario latino-americano sobre plancton [2nd Latin-American symposium on plankton]

Caribbean Council. 20/11/61 MF
61-125me
Puerto Rico. 4 days
Meeting of fisheries officers of the Caribbean area

Agenda incl. consideration of status of fisheries in countries, establishment of a Standing Advisory Committee for Fisheries, proposals for technical assistance; opportunities for regional cooperation in research, education, development, regulation, cooperation and trade.

ASLO, Pacific Section. June/61 M
61-126me
Davis, Calif., U.S.A. 1 day
Symposium on "Biological implications of radioactive isotopes in the sea"

In conjunction with 61-044me. Contributions by W. Royce, B. H. Ketchum, E. Held, M. Waldichuk, O. E. Sette, J. Hedgpeth, W. Aron.

INPFC. 6/11/61 M
61-127me
Tokyo, Japan. 6 days
8th Meeting

Amendment to 60-320me. Principal issues discussed are: Whether to move the present provisional abstention line, westward from its position at 175° W, and whether the three member nations are satisfied that the stocks of herring off the Canadian coast are such as to continue to warrant abstention under the terms of the Convention.

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- | | |
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| GFCM. 17/10/61
Rome, Italy. 2 days
22nd Meeting of the executive committee | M
61-128me |
| U.S. Department of the Interior. 16/8/61
Washington, D.C. 2 days
Symposium on oceanographic instrumentation | M
61-129me |
| University of Padua, Italy. 29/9/61
Padua, Italy. 3 days
Symposium on the experimental method in biology | G
61-130me |
| GCFI. 13/11/61
Miami Beach, Fla. 5 days
14th Annual session
Amendment to 60-238me. Incl. sessions on fisheries, oceanography, estuarine problems, shrimp research, the Caribbean fisheries and reviews of international fishery meetings. Simultaneously with 61-105me, 61-132me, 61-133me, 61-134me and 61-135me. | MF
61-131me |
| Shrimp Association of Americas. 13/11/61
Miami Beach, Fla.
Semiannual meeting

Simultaneously with 61-131me. | M
61-132me |
| Southeastern Fisheries Association. 13/11/61
Miami Beach, Fla.
Quarterly meeting

Simultaneously with 61-131me. | M
61-133me |
| National Fisheries Institute, Area III. 13/11/61
Miami Beach, Fla.
Members meeting

Simultaneously with 61-131me. | MF
61-134me |
| National Shrimp Congress. 13/11/61
Miami Beach, Fla.
Board of directors meeting | M
61-135me |
| Scottish Marine Biological Association. 21/3/62
Millport, Isle of Cumbrae. 15 days
Course in marine biology | M
61-136me |

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- Scottish Marine Biological Association.** 5/9/62 M
61-137me
 Millport, Isle of Cumbrae. 15 days
 Course in marine biology
- IAL.** 20/8/62 F
61-138me
 Madison, Wis., U.S.A. 6 days
 15th International congress of limnology
- FBA (UK).** 4/4/62 F
61-139me
 Windermere, U.K. 14 days
 Vacation course in freshwater biology
- FAO.** 12/7/62 M
61-140me
 La Jolla, Calif., U.S.A. 13 days
 World scientific meeting on the biology of tunas and related species
 Will consider species identification and distribution, population identification, size and composition of stocks, availability (accessibility and vulnerability), physiology and behaviour, fishing methods and future lines of tuna research.
- Marine Biological Association of U.K.** 15/3/62 M
61-141me
 Plymouth, U.K. 14 days
 Course in marine biology
- Marine Biological Association of U.K.** 2/4/62 M
61-142me
 Plymouth, U.K. 13 days
 Course in marine biology
- Lalor Foundation.** 1962 M
61-143me
 Woods Hole, Mass.
 Post-graduate summer or short-term research awards at Marine Biological Laboratory, Woods Hole, on biochemical and physiological mechanisms concerned with fertility and early stages of reproduction.
- ACC.** 9/1/62 M
61-144me
 Paris, France. 2 days
 2nd Meeting of the sub-committee on oceanography
- ICNAF.** 4/6/62 61-145me
 Moscow, USSR. 6 days
 12th (11th Annual) meeting
- ICNAF, Standing Committee on Research and Statistics.** 28/5/62 M
61-146me
 Moscow, USSR. 1 week?
 Meeting
 Precedes 61-144me.

MEETINGS

- | | |
|---|----------------|
| IMCO. 26/3/62
London, U.K. 19 days
International conference on prevention of pollution of the sea by oil | M
61-147me |
| International Association of Game, Fish and Conservation Commissioners. 10/9/62
Jackson, Wyo., U.S.A. 6 days
Convention | MF
61-148me |
| International Congress of Food Science and Technology. 18/9/62
London, U.K. 4 days
1st Meeting | G
61-149me |
| International Congress on the History of Science. 26/8/62
New York and Pennsylvania. 8 days | G
61-150me |
| IHB. 8/5/62
Monte Carlo, Monaco. 1 day
7th International hydrographic conference | M
61-151me |
| INPFC, Committee on Biology and Research. 1/10/61
Tokyo, Japan. 20 days
Working party on high seas salmon distribution—Meeting | M
61-152me |
| Operations Research Society of America. 9/5/62
Washington, D.C., U.S.A. 3 days
21st National meeting (19th annual) | G
61-153me |
| Systematics Association/Challenger Society. 27/9/61
Plymouth, U.K. 3 days
Symposium on speciation in the sea | M
61-154me |
| University of Rochester. 13/7/61
Rochester, N.Y., U.S.A. 2 days
Data acquisition and processing in biology and medicine | G
61-155me |
| USPHS. 13/8/62
Cincinnati, Ohio, U.S.A. 4 days
3rd Seminar on biological problems in water pollution | F
61-156me |

Immediately before 61-138me. Theme will be "Water quality criteria for the protection of aquatic life". Panel and informal discussions of the habitat or environmental requirements of various groups of aquatic organisms, freshwater, marine and estuarine. Special emphasis on the toxicity of industrial wastes, pesticides, detergents and other synthetic organics; the dissolved oxygen and temperature requirements; the effects of pH, CO₂ and other dissolved materials on toxicity, oxygen and temperature requirements; and the direct and indirect effects of silt and turbidity.

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Abwassertechnische Vereinigung (GFR)/Foreningen for Vattenhygien
(Sweden)/Water Pollution Control Federation (USA)/Institute of
Sewage Purification/Inst. of Public Health Engineers/River Board
Association/Scottish River Purification Board Association (U.K.).
3/9/62

MF
61-157me

London, U.K. 5 days

International conference on water pollution research

Sections on (1) Self-purification of freshwater streams and the effects of pollution on fisheries; (2) Treatment of sewage and industrial wastes; (3) Effects of pollution on the marine environment.

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Impenni (Penguins)
- Article on *Impennes*. Morphological, anatomical and other characteristics. Relation to man; biological cycle; ecology and diffusion.
- F
61-01823
- Anon.** (1960)
Mondo d. Natura, (56) : 510-1, (57) : 513-4
Infusori o ciliati (Infusoria or Ciliata)
- Article on Ciliata. Morphological and anatomical characteristics, biological cycle, ecology and diffusion, classification, relation to man.
- MF
61-01824
- Anon.** (1960)
Mondo d. Natura, (57) : 528-34
Integripalliati (Integripalliata)
- Article on Integripalliata. Morphological and anatomical characteristics, biological cycle, ecology, classification, relation to man.

M

Anon. (1960)

61-01825

Mondo d. Natura, (57) : 534-5

Iperodonte dal rostro (Bottle-nosed whale)

Article on *Hyperoodon rostratus* with synopsis. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man

M

Anon. (1960)

61-01826

Mondo d. Natura, (57) : 539-42

Ippocampo (Sea Horse)

Article on *Hippocampus* consisting of synopsis of *H. hippocampus*, and *H. guttulatus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

M

Anon. (1960)

61-01827

Mondo d. Natura, (57) : 542-3

Ippoglosso (Halibut)

Article with synopsis on *Hippoglossus hippoglossus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

F

Anon. (1960)

61-01828

Mondo d. Natura, (57) : 543, (58) : 545-9

Ippopotamidi (Hippopotamuses)

Article on Hippopotamidae consisting of synopsis of *Hippopotamus amphibius* and *Choeropsis liberiensis*

Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

F

Anon. (1960)

61-01829

Mondo d. Natura, (58) : 553-6

Irudinei (Hirudinea)

Article on Hirudinea. Morphological and anatomical characteristics, biological cycle, ecology, classification and diffusion, relation to man.

M

Anon. (1960)

61-01830

Mondo d. Natura, (58) : 569-70

Istioforidi (Sail fishes)

Article on Istiophoridae consisting of synopsis of *Istiophorus gladius*, *Tetrapturus belone*, *T. georgii*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.

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61-01831
- Anon. (1960)**
Mondo d. Natura, (58) : 574-5
 Isuridi (Isuridae)
- Article on Isuridae consisting of synopsis of *Isurus oxyrinchus* and *Lamna nasus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, classification, relation to man.
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61-01832
- Lineikin, P. S. (1961)**
Dokl. Akad. Nauk SSSR, 138 (6) : 1341-4
 Vetrovaia i termogalinaia tsirkuliatsiia v okeane (Wind and thermohaline circulation of water in the ocean)
- M
61-01833
- Anon. (1960)**
Mondo d. Natura, (59) : 598-600
 Labridi (Labridae)
- Article on Labridae consisting of synopsis of *Labrus bergylta*, *L. bimaculatus*, *L. merula*, *L. turdus*. Morphological, anatomical and other characteristics, biological cycle, ecology, diffusion, relation to man.
- M
61-01834
- Anon. (1960)**
Mondo d. Natura, (59) : 604-6
 Lagenorinchi (White-sided dolphins)
- Article on *Lagenorhynchus* consisting of synopsis of *Lagenorhynchus acutus*, *L. albirostris*, *L. obscurus*, *L. fitzroyi*, *L. wilsoni*, *L. superciliosus*, *L. cruciger*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.
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61-01835
- Anon. (1960)**
Mondo d. Natura, (59) : 606-7
 Lagocefalidi (Lagocephalidae)
- Article on Lagocephalidae consisting of synopsis of *L. lagocephalus*, *L. spadiceus*, *Sphoeroides testudineus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion, relation to man.
- M
61-01836
- Anon. (1960)**
Mondo d. Natura, (60) : 610-6
 Lamellibranchi o bivalvi (Lamellibranchiata or Bivalvia)
- Article on Bivalvia. Morphological and anatomical characteristics, biological cycle, ecology, classification and diffusion, relation to man.

MF
61-01837

Anon. (1960)
Mondo d. Natura, (60) : 617-20
 Lamprede (Lampreys)

Article on Lampredae. Morphological and anatomical characteristics, biological cycle, ecology and diffusion, classification, relation to man.

M
61-01838

Anon. (1960)
Mondo d. Natura, (60) : 620
 Lamprididi (Lamprididae)

Article on Lamprididae consisting of synopsis of *Lampris pelagicus*. Morphological, anatomical and other characteristics, biological cycle, classification, ecology and diffusion, relation to man.

M
61-01839

Anon. (1960)
Mondo d. Natura, (60) : 620-22
 Lampridiformi (Lampridiformes)

Article on Lampridiformes consisting of synopsis of *Trachypterus cristatus*, *Regalecus glesne*, *Lophotes cepedianus*. Morphological, anatomical and other characteristics, biological cycle, ecology and diffusion.

M
61-01840

Anon. (1960)
Mondo d. Natura, (60) : 626-31
 Lariidi (Gulls)

Article on Lariidae consisting of synopsis of *L. melanocephalus*, *L. minutus*, *L. ichthyaëtus*, *L. genei*, *L. audouinii*, *L. fuscus*, *L. hyperboreus*, *L. glaucoides*, *Rhodostethia rosea*, *Rissa tridactyla*. Morphological, anatomical and other characteristics, biological cycle, ecology, diffusion, relation to man.

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Anon. (1960)
Mondo d. Natura, (60) : 631-4
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News for Nat., 1 (1) : 16 p.

61-01843

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MF

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News for Nat., 1 (2) : 16 p.

61-01844

Membership, activities of the Council for Nature. Incl. note on new Field Centre of Field Studies Council at Slapton Ley, S. Devon with facilities for study of aquatic communities; countryside exhibition by South Essex Natural History Society to exhibit natural history of freshwaters and marine littoral; activities of various societies and the Conservation Corps in 1959; and of the Intelligence Unit

MF

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 A class-book of botany

61-01845

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Hilder, B. (1959)
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 61-01849

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Oceanus, 7 (1) : 14-5
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Description of a new free float for instruments, which has been successful with different instruments and different methods.

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MG
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(Studies on the fluctuation in catch of the tuna-fishing fleet. 2. On the latitudinal change of the hooked-rate of the albacore and the striped marlin in the Fiji area). Ni En

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- Examination of stomach contents of yellowfin and bigeye tuna, with tabulation of data on satiety, body length of animals found in the stomach, and the composition of food organisms found.
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Ni En

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Ni En

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 Fishes of the family Gobiidae in South Africa
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 Factors causing decline in sockeye salmon of Karluk River, Alaska
- General decline in abundance can be ascribed to lower survival rate from spawner to returning adults in recent years. There is evidence that this lowered survival rate results partially from seasonal distribution of escapement and partially from heightened mortality of the young during fresh-water residence. Portion of general decline is tentatively ascribed to heightened predation in recent years since destruction of former cyclic character of runs has lessened natural control of predators through a reduced amplitude of the oscillations in number of spawners.

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VOLUME 5—MEETINGS: CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-158me to 61-200me

IAEA/FAO/WHO. 21/11/61 G
61-158me
Mexico City, Mex. 11 days
Conference on the use of radioisotopes in the animal biology and the medical sciences

Amendment to 61-057me.

ECAFE. 18/9/61 F
61-159me
Tokyo, Japan. 6 days
Symposium on dams and reservoirs

International Ship Structural Congress. 19/9/61 M
61-160me
Glasgow, Scotland. 3 days
1st Meeting

Challenger Society. 29/11/61 M
61-161me
London, U.K. $\frac{1}{2}$ day
212th Scientific meeting

Paper read: " Research on marine resources in Chile, Ecuador and Peru " by Dr. R. Clarke.

IMCO. 28/5/62 MG
61-162me
London, U.K. 5 days
1st Meeting of sub-committee of maritime safety committee on subdivision and stability

Stazione Zoologica di Napoli. 17/7/61 M
61-163me
Naples, Italy.
Colloquio internazionale sui problemi ecologici delle zone litorali del Mediterraneo [International colloquium on ecological problems of the littoral zones of the Mediterranean]

Gulf States Marine Fisheries Commission. 15/3/62 M
61-164me
Galveston, Tex., U.S.A. 2 days
Meeting

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International Rayon and Synthetic Fibres Committee. 1/5/62 MF
61-165me
London, U.K. 4 days
2nd World congress on man-made fibres

Will incl. paper by Dr. Von Brandt on importance of such fibres for fishing.

Royal Society of London. 1962 M
61-166me
U.K.
Grants under the Browne research fund

The council of the Royal Society is prepared to consider applications for personal grants to enable individuals to carry out research in marine biology.

European Federation of Chemical Engineering. 2/5/62 M
61-167me
Athens, Greece. 3 days
Symposium on de-salting sea-water

ICES. 1/10/62 M
61-168me
Copenhagen, Denmark. 10 days
50th Statutory meeting

IWC. 2/7/62 M
61-169me
London, U.K. 5 days
14th Annual meeting

ICNAF. 24/5/62 M
61-170me
Moscow, USSR. 3 days
Meeting of the working group on assessment

IATTC. 24/5/62 M
61-171me
San Diego, Calif. 1 day
Annual meeting

IFIPS. 27/8/62 G
61-172me
Munich, Germany. 6 days
1st Congress

INPFC, Committee on Biology and Research. 15/7/61 M
61-173me
Nanaimo, B.C., Canada. 1 month
Working party on oceanography

The purpose was to co-ordinate Canada, Japan and U.S. contributions and prepare the final report on oceanography of the area of interest to the commission.

MEETINGS

WMO. 26/3/62 Washington, D.C. 26 days 3rd Session of the commission for synoptic meteorology	G 61-174me
NPFSC. 7/2/62 Ottawa, Canada. 4 days 5th Annual meeting	M 61-175me
Water Pollution Control Federation. 9/10/61 Milwaukee, Wis., U.S.A. 4 days 34th Annual meeting	MF 61-176me
UN. 18/6/61 Feldbach, Zurich, Switzerland. 3 days Symposium on nutrition science in the service of developing countries	G 61-177me
IMCO. 21/11/61 London, U.K. Expert working group on pollution of the sea by oil	M 61-178me
OEEC/EPA. Feb./62 Paris, France. Meeting of experts on the consumption of fish	MF 61-179me
CIBA Foundation. 18/3/62 Cairo, Egypt. 5 days Symposium on bilharziasis	F 61-180me
International Association of Microbiological Societies. 19/8/62 Montreal, Canada. 7 days 8th International congress of microbiology	G 61-181me
CCTA. 4/9/62 Bukavu. 10 days 4th Inter-African conference for food and nutrition	MF 61-182me
CCTA/IUCN. 5/9/62 Arusha, Tanganyika. 8 days Symposium on the conservation of nature and natural resources in modern African states.	MF 61-183me
IPFC. Oct./62 Seoul, Korea. 10th Session	MF 61-184me

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- American Society of Animal Production.** 24/11/61 MF
61-185me
Chicago, Ill., U.S.A. 2 days
Meeting
- GLFC.** 29/11/61 F
61-186me
London, Ont., Canada. 2 days
Interim Meeting
- FAO/WHO.** 1/12/61 61-187me
Hyderabad, India. 8 days
5th Joint nutrition conference for the Far East
- Association of British Zoologists.** 6/1/62, MG
61-188me
London, U.K. 1 day
27th Annual meeting
- Incl. a paper on fisheries by Dr. H. O. Bull, Dove Marine Laboratory
- NPFSC.** 29/1/62 M
61-189me
Ottawa, Canada. 9 days
Meeting of the standing scientific committee
- IPHC.** 13/2/62 M
61-190me
Seattle, Wash., U.S.A. 4 days
Meeting
- Fisheries Council of Canada.** 25/4/62 MF
61-191me
Quebec, Canada. 3 days
Annual convention
- ICNAF.** 26/4/62 M
61-192me
Boston, Mass., U.S.A. 1 day
Industry advisory committee
- Oyster Growers and Dealers/National Shellfisheries.** 29/7/62 M
61-193me
Baltimore, Md., U.S.A. 5 days
Meeting
- University of British Columbia, Department of
University Extension.** 8/1/62 M
61-194me
Vancouver, B.C., Canada. 19 days
Fisheries short course
- International Agricultural Center.** Sept./61 F
61-195me
Wageningen, Netherlands
Meeting on control of aquatic weeds

MEETINGS

- | | |
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| IUCN. 15/5/62
Morges, Switzerland. 3 days
Meeting of the executive board

Jointly with the meeting of trustees of World Wildlife Fund. | MF
61-196me |
| NAS/NRC(US). 9/10/61
Wellington, N.Z. 6 days
5th Meeting of the special committee on Antarctic research | MG
61-197me |
| UNESCO. 10/10/61
Istanbul, Turkey. 5 days
Meeting of consultants for the cell biology programme | G
61-198me |
| American Society for Cell Biology. 2/11/61
Chicago, Ill., U.S.A. 3 days
1st Meeting | G
61-199me |
| UNESCO. Dec./61
Buenos Aires, Argentina
Meeting of experts on a regional project relative to the natural resources of the Andes region | FG
61-200me |

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Atlante dei pesci delle coste italiane (Fish atlas of the Italian coasts)
Detachable cards, ill., with notes on morphology, reproduction, nutrition and distribution of *Puntazzo puntazzo*, *Charax puntazzo*, *Sparus puntazzo*, *S. acutirostris*, *Boops boops*, *Sparus boops*, *Box boops*, *B. vulgaris*.
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Due novità nel campo degli ARA (Two novelties in the field of ARA)
Describes the "Abyssal" and "Atmos" SCUBA equipment.
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- Composition of the Board; the fishings; commercial and statutory arrangements between or concerning the Board, the catchers and the shore-based sections of the industry; marketing; production, research and development; the fleet; publicity and public relations; accounts; the outlook for the herring reduction industry. Summary of directions having seasonal effect which were issued during the year 1959; minimum prices rule; quick-freezing and cold storage rules.
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 (Study of the Pholades of China and description of new spp.). Ch Fr

Ill. description of spp. of Pholadidae, incl. new spp. of *Pholas*, *Barnea*, *Pholodidea*, *Martesia*, *Parapholas* and *Jouannetia*.

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Wei-Nan, H. (1960)
Acta zool. Sinica, 12 (1) : 101-13
 (Notes on some parasitic nematodes obtained from vertebrates in Nanking). Ch En

Ill. notes on spp. of *Rhabdias* and *Tanqua* from water snake *Elaphe*. Key to 5 spp. of *Tanqua* incl. sp. from *Acipenser*.

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An-chi, W. & W. Chen-yin (1960)
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 (The effect of embryonic development of goldfish from exposing the parent fish to X-rays). Ch En

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Proc. Camb. phil. Soc., 54 (4) : 439-53

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Theory for analysis of sea waves by study of reflection from surface. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (254).

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Proc. Camb. phil. Soc., 55 (1) : 91-100

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Contribution to method of analysing sea waves. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (259).

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Summary and review of data especially for distribution of wave heights and periods, effects of varying wind direction and atmospheric stability. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (262).

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On the origin of the Dogger Bank in the North Sea

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Engineering, Lond., 188 : 414-6

Design for an ocean going research ship

General essay; special consideration of scope of requirement, optimum size; range, endurance and speed; population and manoeuvrability; workshops and stores; deck arrangements; navigation equipment. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (280).

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A pattern of sediment transport for sea floors around southern Britain

Descriptions and charts. Issued also as: *Coll. Repr. nat. Inst. Oceanogr.*, 7 (281).

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The distribution of the latent roots of the covariance matrix

Uses representation theory of linear group to obtain general distribution for arbitrary Σ .

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Kusnezow, S. I. (1959)

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Berlin, Dtsch. Verlag der Wissenschaften, 301 p.

Die Rolle der Mikroorganismen im Stoffkreislauf der Seen (The role of microorganisms in the biochemical circulation of elements in lakes)

Short general review of limnology, detailed review of the occurrence of bacteria in the water and in the deposits, factors affecting their abundance and activity and biochemical circulation of nitrogen, sulphur and other elements in the lakes.

M

Saudray, Y. & A. Lemercier (1960)

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Bull. Inst. océanogr. Monaco, (1162) : 11 p.

Observations sur le développement des oeufs de *Ligia oceanica* Fabr. crustacé isopode oniscoïde (Observations on the development of eggs of *Ligia oceanica* Fabr., Oniscoid crustacean isopod). En

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M

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 A taxonomic study.
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 The life history and feeding habits of a tripod fish (*Triacanthus brevirostris* Temm. and Schleg.) of the Indian Sea
 Describes egg, larval and juvenile stages and feeding of these and adults.

MF

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van Someren, V. D. (1960)*E. Afr. agric. J.*, 25 (4) : 245-50The artificial culture of the edible East African oyster, *Crassostrea cucullata* (Born)

Culture experiments at creeks in Kenya; counts on tiles, spat collection; correlation of settlement with yearly rainfall; growth rates; recommendations for further work.

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Whitehead, P. J. P. (1960)*E. Afr. agric. J.*, 25 (4) : 259-65

The river fisheries of Kenya—Part 2. The lower Athi (Sabaki) River

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Concerning the proposed introduction of Nile perch into Lake Victoria

Argues that proposal to re-introduce *Lates niloticus* is based on ignorance of biological concepts, and that it would jeopardize the existing fishery. Reference to *Tilapia* and *Haplochromis* in the ecosystem, and also *Bagrus* and *Clarias*. Reviews other disastrous introductions elsewhere.

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Description of characteristics and formations of the bottom.

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Development and structure of some actinopterygian and urodele teeth

Describes and discusses tooth structure in spp. of *Esox*, *Salmo*, *Anguilla*, *Conger*, *Gadus*, *Merluccius*, *Melanogrammus*, *Labrus*, *Zoarcas*, *Trigla*, *Pleuronectes*, *Lepisosteus*, *Amia*, *Ctenolabrus*, *Lophius*, *Anarhichas*, *Polypterus*, *Calamoichthys*.

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 The development of the pleopods in the young crab stages of *Pinnotheres* (Crustacea)
 Describes and ill. development of male and female *P. pinnotheres* and *P. pisum* at Plymouth, and the rearing of immature crabs in *Mytilus*.
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 Observations on *Argonauta* and especially its method of feeding
 Aquarium observations at Naples of female *A. argo*: behaviour, respiration, swimming, feeding on fish, function of shell and web; comparison with other related planktonic octopods—*Tremoctopus* and *Ocythoe*.
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 Observations on the grey seal at St. Kilda in winter
 Breeding season and sites, and calf mortality of *Halichoerus grypus*.
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Proc. zool. Soc. Lond., 133 (3) : 490-4
 A seal survey and pupping season in Irish Sea, of *Halichoerus grypus* and *Phoca vitulina* in 1955-57
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- Job, T. J.** (1960)
Mimeo, 47 P.
 The status of the fisheries industries in the Near East
 The status of the fisheries industries in the Near East and their potential contribution in improving the nutritional level and the standard of living in the region.
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- Hutson, V. M.** (1960)
Malay. Nat. J., 14 (2) : 122-5
 Descriptions of crocodiles and alligators
 Contains a rough key to the identification of *Gavialis gangeticus*, *Tomistoma schlegeli*, *Crocodylus* and *Alligator*; notes on their life history and habits as well as *Crocodylus niloticus* and *C. porosus*.

Hutson, V. M. (1960)*Malay. Nat. J.*, 14 (2) : 126-7

Hunting crocodiles

Description of hunting techniques by bait or spear.

F
61-02645**Lambou, V. W.** (1959)*Mimeo*, 8 p.

A contribution toward a bibliography on use of machine methods in processing fishery data

120 references in alphabetic order, to papers describing methods rather than dealing with fisheries problems.

MF
61-02646**Dunbar, M. J.** (1960)*Amer. Nat.*, 94 (875) : 129-36

The evolution of stability in marine environments—Natural selection at the level of the ecosystem

Starting from the premise that oscillations are dangerous for any system and that violent oscillations may be lethal, the paper contrasts the highly stable production systems of tropical waters with the seasonal and longerterm oscillations of temperate and polar waters.

M
61-02647**Svetenskii, L. N.** (1960)*Dokl. Akad. Nauk S.S.S.R.*, 131 (2) : 273-4

Ob odnoi gidrodinamicheskoi zadache, svyazannoi s problemoi tsunami (A hydrodynamic problem connected with tsunami)

MF
61-02648**Shuliak, B. A.** (1960)*Dokl. Akad. Nauk S.S.S.R.*, 131 (2) : 275-8

O parametrakh struktur deformiruemogo dna volnovogo potoka (Structure constants of the bottom that is being deformed by an undulatory flow)

MF
61-02649**Vikhrenko, N. M.** (1960)*Dokl. Akad. Nauk S.S.S.R.*, 131 (2) : 412-5

Izucheniye organicheskogo veshchestva osadkov Atlanticheskogo okeana luminescentnym metodom (A study of the organic substance of the deposits of the Atlantic, carried out by the luminescence method)

M
61-02650**Isaeva, A. B.** (1960)*Dokl. Akad. Nauk S.S.S.R.*, 131 (2) : 416-9

Vol'fram v donnykh otlozheniiakh Okhotskogo moria (Tungsten in bottom deposits of the Okhotsk Sea)

M
61-02651**Lukin, E. I. & V. M. Epshtein** (1960)*Dokl. Akad. Nauk S.S.S.R.*, 131 (2) : 457-60

Edemichnye baikal'skie piiavki iz sem. Glossiphonidae (Endemic baikalian leeches of the Glossiphonidae family)

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Arch. Oceanogr. Limnol., Venezia, 11 (3) : 305-56
- Il polimorfismo adattativo e i fattori della selezione nel copepode *Tisbe reticulata* Bocquet (Adaptive polymorphism and the factors of selection in the copepod *Tisbe reticulata* Bocquet). En
- Reports the final results of a research on the polymorphism of *T. reticulata* living in the lagoon of Venice. First part deals with the description of environment and with some fundamental problems about faunal adaptation to life in brackish waters. The problem of genetic polymorphism with special reference to its adaptive and evolutionary implications is also dealt with. Second part contains the genetic analysis of polymorphism in *Tisbe*.
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- Malle, B.** (1960)
Arch. Oceanogr. Limnol., Venezia, 11 (3) : 357-70
- Guida pratica per l'esecuzione dell'analisi armonica secondo il metodo Doodson (Practical guide for the procedure of the harmonic analysis of tides according to the Doodson method). En
- The guide is directed to simplify the execution of harmonic analysis of tides. Special attention is given to control data. Sample tables are incl. and practical advice is suggested for individual and team work. The guide may be utilized by people who do not have a specific experience in this field. Issued also as: *Pubbl. Ist. talassogr., Trieste*, (363).
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- Picotti, M.** (1960)
Arch. Oceanogr. Limnol., Venezia, 11 (3) : 371-420
- Crociera talassografica Adriatica 1955-3. Tabelle delle osservazioni fisiche, chimiche, biologiche e psammografiche (Adriatic talassographic cruise 1955-3. Tables of the physical, chemical, biological and psammographical observations). En
- The various observations made in the course of the oceanographic expedition of Aug.-Sep. 1955 in the Adriatic, are presented in a series of tables which indicate the conditions of air and sea, depth of each measurement level, temperature, salinity, density *in situ*, oxygenation, pH, nutrient salts, corings, optical and turbidity measurements, as well as biological observations. Tables are preceded by a short account, describing methods and unity of measurements used for each determination. Issued also as: *Pubbl. Ist. talassogr., Trieste*, (361).
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Rome, FAO, mimeo,

Étude de la préparation de la campagne nationale en faveur de la consommation du poisson et des dérivés du poisson au Maroc (Study on the preparation of the national campaign in favour of the consumption of fish and its by-products in Morocco)

Contains 60-8767, 61-02658 and 61-02659.

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In 61-02657 : 33 p.

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Fisheries and oyster farms (amendment) act, 1960 : an act to make further provisions with respect to the taking of fish in inland waters; for this purpose to amend the fisheries and oyster farms act, 1935-1957; and for purpose connected therewith.—24 March 1960

The amendments affect section 4—interpretation—, section 25B—persons fishing in inland waters to be licensed—and section 120—regulations.

MF

New South Wales. Laws, Statutes, etc. (1960)

61-02801

Govt Gaz., N.S.W., (86) : 2245

Proclamation made under the fisheries and oyster farms act, 1935-1960, relative to a portion of the waters of Wonboyn River, County of Auckland (9966).—6 July 1960

Rescinds proclamation of 7 Jan. 1959, published in *G.G.* No. 10 of 23 Jan. 1959, and prohibits the taking of fish by means of every description other than: (1) prescribed dip or scoop net for the capture of prawns only; (2) prawn nets not exceeding 20 feet in length; (3) salmon net for the capture of Australian salmon, *Arripis trutta*, subject to the condition that all fish other than Australian salmon taken in the nets be returned immediately to the water, during the period 22 Jul. 1960 to 21 Jul. 1963.

F

New South Wales. Laws, Statutes, etc. (1960)

61-02802

Govt Gaz., N.S.W., (86) : 2245

Proclamation made under the fish and oyster farms act, 1935-1960, relative to a portion of waters of Macleay River, Counties of Clarke, Dudley, Sandon and Vernon. (9967).—6 July 1960

Prohibits the taking of fish by means of nets of every description from 20 Oct. 1960 to 19 Oct. 1965 in the said waters.

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New South Wales. Laws, Statutes, etc. (1960)
Govt Gaz., N.S.W., (86) : 2246
 Proclamation made under the fisheries and oyster farms act, 1935-1960. (9968).—6 July 1960

Prohibits the taking of fish by means of meshing nets other than by the methods known as "bull-ringing", i.e. running a net attached to the bow of a boat in a circle back to the bow of such boat and then drawing in the net, and "meshing" or "splashing", i.e. shooting the net, splashing the water in the vicinity and then taking up and removing the net forthwith, during the period 9 Dec. 1959 to 8 Dec. 1964, in the waters specified in the schedule, County of Camden.

MF
61-02804

New South Wales. Laws, Statutes, etc. (1960)
Govt Gaz., N.S.W., (90) : 2415-6
 Amendment of regulations under the fisheries and oyster farms act, 1935-1960.—5 August 1960. (281)

A person in receipt of an invalid or age pension may obtain an inland angling licence at a reduced fee.

F
61-02805

New South Wales. Laws, Statutes, etc. (1960)
Govt Gaz., N.S.W., (98) : 2639
 Proclamation under the fisheries and oyster farms act, 1935-1960, relating to the entrance waters of Burrill Lake, County of St. Vincent. (585).—10 August 1960

Prohibits the taking of fish by means of nets of every description other than specified prawn nets, in the said waters, from 13 Oct. 1960 to 12 Oct. 1965.

F
61-02806

New South Wales. Laws, Statutes, etc. (1960)
Govt Gaz., N.S.W., (102) : 2768
 Closure notification under the fisheries and oyster farms act, 1935-1960. (809).—10 August 1960

Prohibits the taking of all spp. of fish by all methods, in the specified inland waters, from 1 Sep. 1960 to 31 Aug. 1961, except, in certain waters, with a single rod held in the hand with a line attached, etc.

F
61-02807

New South Wales. Laws, Statutes, etc. (1960)
Govt Gaz., N.S.W., (102) : 2765-8
 Closure notification under the fisheries and oyster farms act, 1935-1960. (808).—29 August 1960

With certain exceptions, prohibits the taking of fish in the specified inland waters from 1 Sep. 1960 to 31 Aug. 1961.

New South Wales. Laws, Statutes, etc. (1960) MF 61-02808
Govt Gaz., N.S.W., (102) : 2769

Amendment of regulations made under the fisheries and oyster farms act, 1935-1960. (778).—2 September 1960

Prohibits use of any cod end or portion of a net capable of being used as a cod end.

New South Wales. Laws, Statutes, etc. (1960) M 61-02809
Govt Gaz., N.S.W., (102) : 2769

Amendment of regulations made under the fisheries and oyster farms act, 1935-1960. (779).—2 September 1960

Amends regulation 18A by inserting new paragraph relating to specified waters which shall be classified as sea beaches or territorial ocean waters.

Queensland. Laws, Statutes, etc. (1960) MF 61-02810
8 Eliz. II, (59) : 11 p.

The fisheries act amendment act of 1959 : an act to amend the fisheries act of 1957, in certain particulars.—22 December 1959

Concerns powers of inspectors, seizure of prohibited nets or other apparatus, licences, etc.

Queensland. Laws, Statutes, etc. (1960) MF 61-02811
 Separate publication, 3 p.

Regulations under the fisheries acts, 1957 to 1959.—10 March 1960

Relative to application for licences, nets which may be used under licences, etc.

Tasmania. Laws, Statutes, etc. (1960) F 61-02812
Tasm. Govt Gaz., 215 (13, 476) : 1187

Statutory rules No. 119 of 1960: inland fisheries regulations 1960 made under the fisheries act 1959

Repeal and replace the freshwater fisheries regulations, 1956, fix the times and seasons for taking the various spp. or kinds of fish; prescribe minimum sizes of fish that may be taken; regulate the kinds of rods, bait, etc., to be used; regulate the issue of licences; and generally regulate the taking of freshwater fish.

Western Australia. Laws, Statutes, etc. (1960) MF 61-02813
Govt Gaz. W. Aust., (65) : 2299

Proclamation under the fisheries act, 1905-1956. F.D. 183/60.—21 July 1960

Prohibits all persons from taking any fish whatsoever by means of fishing nets known as or called otter trawl nets and beam trawl nets in all those portions of Western Australian waters described in the schedules hereto for a period of five years from 1st day of Aug. 1960.

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61-02814

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (65) : 2300

Proclamation under the fisheries act, 1905-1956. F.D. 192/21.—21 July 1960

Prohibits all persons from taking, by any means of capture whatsoever, the fish known as or called "crayfish" in the portion of Western Australian waters specified.

MF
61-02815

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (66) : 2353

Amendment of regulations made under the fisheries act, 1905-1956.—21 July 1960

Amends regulation 8 (1) of the principal regulations by substituting for paragraph (ii) a new paragraph relative to deliveries of fish to hospitals or charitable institutions; to sale at public auctions by tender, or by private treaty; to destructions if unfit for human consumption.

MF
61-02816

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (72) : 2558

Proclamation under the fisheries act, 1905-1956. F.D. 77/34.—18 August 1960

Prohibits all persons from taking any fish whatsoever by means of fishing nets in any of the portions of Western Australian waters specified in the schedule thereto—Hardy Inlet—for a period of five years as from 16 Aug. 1960.

MF
61-02817

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (72) : 2558

Proclamation under the fisheries act, 1905-1956. F.D. 41/20.—18 August 1960

Prohibits all persons from taking any fish whatsoever by means of fishing nets in any of the portions of Western Australian waters specified in the schedule thereto—Torbay Inlet—for a period of five years as from 1 Sep. 1960.

MF
61-02818

Western Australia. Laws, Statutes, etc. (1960)
Govt Gaz. W. Aust., (78) : 2910

Proclamation made under the fisheries act, 1905-1956. F.D. 68/33.—7 September 1960

Declares that all those portions of Western Australian waters described in the schedule thereto shall be closed against the use of fishing nets for a period of five years, from 16 Sep. 1960.

- Belgium. Laws, Statutes, etc. (1960)** M
61-02819
Monit. belge, (203) : 6312

Arrêté ministériel du 21 juillet 1960, instituant des mesures pour prévenir l'épuisement des réserves de poissons en mer, en application de l'arrêté royal du 7 mai 1958 (Ministerial order for preventing the exhaustion of ocean fisheries resources, in application of the royal order of 7 May 1958).—21 July 1960

Provides for purposes of the above order, that when certain minimum percentages of certain spp. are exceeded in a catch, e.g. 50% for herring and mackerel, 30% for eel, shrimp, smelts, etc., such catch shall be considered as mainly consisting of such spp.

- Belgium. Laws, Statutes, etc. (1960)** M
61-02820
Monit. belge (220) : 6858-9

Arrêté ministériel du 1er septembre 1960, portant fixation de la rémunération à payer pour l'obtention de licences pour la recherche et la cueillette du naissain de moules pendant la période allant du 1er octobre 1960 au 30 avril 1961, sur les ouvrages de la côte et des ports du littoral (Ministerial order fixing the rate of payment to be made for obtaining licences to seek and collect mussel brood during the period from 1 October 1960 to 30 April 1961 on coastal and coastal harbour holdings.—1 September 1960)

- Ceylon. Laws, Statutes, etc. (1960)** MF
61-02821
Ceylon Govt Gaz., extr. (12,165) : 1350-62

Government notification under the provisions of section 46 (iv) of the Ceylon—constitution and independence—orders in council, 1946 and 1947.—23 July 1960

Ad 60-4486. Assigns departments, subjects and functions to ministers with effect from 23 Jul. 1960, as indicated in the schedule thereto. All previous assignments are hereby cancelled with effect from 23 Jul. 1960. New set up of the Ministry of Agriculture, Land, Irrigation and Power, which now incl. the Department of Fisheries.

- Chile. Laws, Statutes, etc. (1960)** M
61-02822
Diario ofic., Chile, (24,672) : 1294

Decreto N° 397 por el que se establece la división del país en las zonas agrícolas y pesqueras que se indican (Decree No. 397, dividing the country into agricultural and fisheries zones as indicated).—31 May 1960

Establishes five zones, each containing from four to six provinces.

- Chile. Laws, Statutes, etc. (1960)** M
61-02823
Diario ofic., Chile, (24,729) : 1643

Decreto N° 597 aprobando el reglamento para el establecimiento de industrias pesqueras en el país (Decree No. 597, regulating the establishment of fisheries industries in the country.—11 August 1960)

Replaces decree No. 94 of 22 Jan. 1958 and unpublished decree No. 220 of 10 Mar. 1960. Detailed provisions on the authorization to obtain from the Ministry of Agriculture.

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Chile. Laws, Statutes, etc. (1960)

61-02824

Diario ofic., Chile, (24,736) : 1690

Decreto N° 598 por el que se reemplaza el número 1 del decreto supremo N° 837, publicado en el *Diario ofic.* del 4 de octubre de 1957 (Decree No. 598, replacing para. 1 of supreme decree No. 837, published in the *Diario ofic.* of 4 October 1957).—11 August 1960

Amends the composition of the Chilean section of the Permanent Commission on the Exploitation and Preservation of the Maritime Resources of the South Pacific to incl. representatives of the fishing and whaling industries.

M

Cuba. Laws, Statutes, etc. (1960)

61-02825

Gac. ofic., Cuba, (86) : 11071-2

Resolución por la que se establece un período de veda de las especies denominadas biajaiba, corvina y robalo (Order establishing a closed season on biajaiba,—*Mesoprion uninotatus*,—sea bass and robalo)

From 5 May to 5 Aug. 1960.

M

Cuba. Laws, Statutes, etc. (1960)

61-02826

Gac. ofic., Cuba, (98) : 12644-7

Decreto ministerial por el cual se dictan normas complementarias al reglamento del impuesto sobre utilidades de la empresa (Ministerial decree prescribing supplementary measures regulating enterprise utility taxes).—9 May 1960

Also applies to fishing enterprises.

F

Finland. Laws, Statutes, etc. (1960)

61-02827

Finlands FörfattnSaml., (160-168) : 427

N:o 166. Lantbruksministeriets beslut om inskränkning av fisket i vissa vatten i Enare kommun (Resolution No. 166 of the Ministry of Agriculture restricting fishing in certain waters in the Enare Commune).—22 March 1960

Fishing is prohibited for a period of five years as from 1 Apr. 1960 in the river Kuosnijoki in the Enare Commune within the limits specified in the text.

F

Finland. Laws, Statutes, etc. (1960)

61-02828

Finlands FörfattnSaml., (160-8) : 428

N:o 167. Lantbruksministeriets beslut om förbud mot fiske i vissa vatten (Resolution No. 167 of the Ministry of Agriculture prohibiting fishing in certain waters).—22 March 1960

Prohibits forthwith until the end of 1964 all fishing in the waters in various rural communes specified in detail in the text.

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France. Laws, Statutes, etc. (1960)

61-02829

J. off. Rép. franç., (183) : 7393-4

Décret n° 60-827 du 2 juillet 1960 portant modification du décret n° 58-368 du 2 avril 1958 relatif à la réglementation de la pêche dans les eaux françaises du lac Léman (Decree No. 60-827, amending decree No. 58-368 of 2 April 1958, regulating fishing in the French waters of Lake Geneva).—2 July 1960

Amends rules governing the size of various spp. of fish which may be taken.

F

Germany. Federal Republic. Laws, Statutes, etc. (1960)

61-02830

BundGesBlatt dtsch. fed. Rep., I, (19) : 217-8

Gesetz über eine Betriebszählung in der Land- und Forstwirtschaft (Landwirtschaftszählung 1960) (Act relative to the census of agricultural and forest holdings).—13 April 1960

Article 6 provides for the census of inland fisheries in Jun. 1962.

F

Italy. Laws, Statutes, etc. (1960)

61-02831

Gazz. uff., Italy, (184) : 2854-66

Decreto ministeriale 10 marzo 1960 relativo alla disciplina della stampa delle licenze di pesca nelle acque dolci e dei libretti-tessera di riconoscimento (Ministerial decree relative to rules governing the printing of freshwater fishing licences and of identification licence-books).—10 March 1960

Reproduces facsimiles of the above licences in the text.

MF

Italy. Laws, Statutes, etc. (1960)

61-02832

Gazz. uff., Italy, (227) : 3548-50

Decreto ministeriale 30 aprile 1960, relativo alle concessioni di temporanea importazione (Ministerial decree relative to temporary import concessions. 30 April 1960)

Tabulates in the text the dates and duration of temporary concessions for imports of various products, incl. fish conserves.

M

Mexico. Laws, Statutes, etc. (1960)

61-02833

Diario ofic., México, (20) : 3

Acuerdo que establece la veda para la pesca de camarón en aguas marítimas frente a las costas de los estados de Nayarit, Sinaloa, Sonora y litoral oriental de la península de baja California (Order establishing a closed season on shrimp fishing in the sea waters opposite the coasts of the states of Nayarit, Sinaloa, Sonora, and east coast of the peninsula of lower California).—5 July 1960

From 16 Jul. to 15 Sep. on an experimental basis.

REFERENCES

M

Mexico Laws, Statutes, etc. (1960)

61-02834

Diario ofic., México, (133) : 4

Acuerdo que dispone que la importación de harinas de residuos de animales marinos queda sujeta a previo permiso de la Secretaría de Industria y Comercio inclusive para las zonas y perímetros libres del país (Order subjecting imports of flours of sea animal residues to prior authorization by the Secretary of Industry and Commerce, including imports into the free zones and areas of the country).—14 July 1960

M

Netherlands. Laws, Statutes, etc. (1959)

61-02835

Staatscourant. Neth., (133) : 7

Onttrekking Gedeelte Waddenzee aan de Openbare Visserij. 10 juli 1959/Nr. Vi. 2825/Directie van de Visserijen (Order No. Vi. 2825/Directie van de Visserijen issued by the Minister of Agriculture and Fisheries closing certain parts of the Waddenzee—northern part of the Zuiderzee—to public fishing).—10 July 1959

MF

Netherlands. Laws, Statutes, etc. (1959)

61-02836

Staatsblad, Neth., text 379 : 853-4

Besluit van 15 oktober 1959 tot nadere wijziging van het Visbesluit (Warenwet) (Decree re-amending the decree relative to fish—foodstuffs act—as published in *Stbl.* 840 of 1940 and as last amended in *Stbl.* 534 of 1955).—15 October 1959

Refers to written specifications relative to parts of fresh fish exposed for sale in markets and public sales premises. Preserving agents, colouring matters, etc.

MF

Netherlands. Laws, Statutes, etc. (1959)

61-02837

Staatsblad, Neth., text 380 : 855

Besluit van 20 oktober 1959, houdende wijziging van enige visserijreglementen (Decree amending certain fishing regulations.—20 October 1959)

The decree amends a certain number of regulations relative to fishing in the Zuiderzee and in rivers and the decree of 21 Oct. 1954, *Stbl.* 487, concerning some of the following points: permitted periods for fishing with a seine or various other nets, dimensions of net meshes, dimensions of fish, etc.

M

Norway. Laws, Statutes, etc. (1960)

61-02838

Norsk Lovtid., (3) : 71-2

Resolusjon om regler for fiske etter sild og brisling med flytetralø. 1. (Royal resolution specifying rules governing herring and sprat fishing using trawl nets or the like).—22 January 1960

Pursuant to art. 37 of the herring and brisling fisheries act of 25 Jun. 1937 as amended by the act of 17 Apr. 1957. Specifies provisions governing the use of trawl nets or other ocean fishing gear which, when used in herring and brisling fisheries, is drafted by one or more vessels, and *inter alia* prohibiting any part of such gear from being drafted along the sea bottom within Norwegian fishing waters.

- M
61-02839
- Norway. Laws, Statutes, etc. (1960)**
Norsk. Lovtid., (3) : 73

Bestemmelser om bruk av flytetral under vintersildfiske (Provisions governing the use of trawl nets in winter herring fishing).—22 January 1960

Pursuant to the act of 25 Jun. 1937 relative to herring and brisling fisheries. Until further notice fishermen shall be allowed to catch herring, south of Stad, from 2 hours after sunset until 3 hours before sunrise.

- MF
61-02840
- Pakistan. Laws, Statutes, etc. (1960)**
Gaz. Pakistan, extr., (1) : 938

The finance ordinance, 1960: ordinance No. 25 of the Ministry of Finance (Revenue Division) to give effect to the financial proposals of the central government for the year beginning on the first day of July 1960).—30 June 1960

Extensive ordinance on customs duties, incl., *inter alia*, fisheries products.

- M
61-02841
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5737) : 1

Resolución ministerial N° DC-867 por la que se establece el fondo de provisión de los pescadores (Ministerial resolution No. DC-867, establishing a fishermen's welfare fund).—25 May 1960

Covering accident, death and other risks.

- M
61-02842
- Poland. Laws, Statutes, etc. (1960)**
Dziennik Ustaw, (16) : 160, text 95

Rozporządzenie Ministra Żeglugi i Gospodarki Wodnej z dnia 4 marca 1960 r. o zmianie rozporządzenia z dnia 17 listopada 1954, r.w. sprawie ochrony rybołówstwa na Zalewie Szczecińskim (Order of the Minister of Navigation and Waters Economy amending the order of 17 November 1954, Dz.U. No. 53 of 1954, text 267 and No. 66 of 1958, text 327, relative to the protection of fisheries in the Zalewie Szczecin area).—4 March 1960

- M
61-02843
- Portugal. Laws, Statutes, etc. (1960)**
Diário do Gov., Portugal, I, (73) : 822

Portaria n.º 17 649: suspende a cobrança pelo Grémio dos Armadores de Navios da Pesca do Bacalhau do quantitativo de \$02 por quilograma de bacalhau salgado verde, destinado ao Fundo de exercício (estudos) pela portaria n.º 9095 (Order No. 17.649 of the Ministry of Economy suspending the charge by the Codfishing Boatbuilders Association of the amount of 0.2 escudos per kg of salted green codfish, intended for the working—research—fund pursuant to order No. 9095 of 2 November 1938).—29 March 1960

- M
61-02844
- Portugal. Laws, Statutes, etc. (1960)**
Bol. ofic., Cabo Verde, (23) : 436

Despacho autorizando a Companhia de Pesca e Congelacao de Cabo Verde, Limitada, a exercer a pesca de lagostas e mariscos (Order of the Foreign Trade Board authorizing the Cabo Verde Fish and Refrigeration Company to conduct lobster and crustacean fisheries).—2 June 1960

REFERENCES

MF

Union of South Africa. Laws, Statutes, etc. (1960) 61-02845
Govt Gaz., S. Afr., extra, (6488) : 2

No. R. 1028. Doeanewet, 1955. Wysiging van die eerste bylae (No. 1/38) (Government notice No. R 1028 under the customs act, 1955, amending the first schedule, No. 1/38, to the said act).—15 July 1960

As from the date of publication hereof, animal or fish glue is provided for under a separate item.

MF

Union of South Africa. Laws, Statutes, etc. (1960) 61-02846
Govt Gaz., S. Afr., extra, (6488) : 3

No. R. 1030. Doenanewet, 1955. Wysiging van die tweede bylae (No. 2/35) (Government notice No. R 1030 under the customs act, 1955, amending the second schedule, No. 2/35, to the said act).—15 July 1960

As from the date thereof, the rebate of duty on animal or fish glue is curtailed or withdrawn in respect of the items mentioned.

M

Union of South Africa. Laws, Statutes, etc. (1960) 61-02847
Govt Gaz., S. Afr., (6502) : 6-7

No. 262, 1960. Wet op seevisserye, No. 10 van 1940 (Proclamation No. 262, made under the sea fisheries act, No. 10 of 1940 as amended).—22 July 1960

Establishes in a specified area closed seasons for pilchards, maasbankers and mackerel. The prohibition shall not apply to the catching of the said fish for any purpose other than: (a) canning or the production of fish meal, fish oil or fish fertilizer; (b) the sale to any person for the purpose of canning or the production of fish meal, fish oil or fish fertilizer.

M

Union of South Africa. Laws, Statutes, etc. (1960) 61-02848
Govt Gaz., S. Afr., (6516) : 6-7

No. 303, 1960. Wet op seevisserye, 1940. Kreefreservate (Proclamation No. 303, 1960, made under the sea fisheries act, 1940, as amended, relative to rock lobster sanctuaries). 13 August 1960

Forbids any person to capture, attempt to capture, disturb or remove rock lobster, *Jasus lalandii*, within the areas defined in the schedule thereto. Repeals proclamation No. 157 of 1952, as amended by proclamation No. 255 of 1953 and proclamation No. 148 of 1955.

M

Union of South Africa. Laws, Statutes, etc. (1960) 61-02849
Govt Gaz., S. Afr., extra, (6515) : 3-4

No. R. 1234. Doeanewet, 1955. Wysiging van die eerste bylae (No. 1/50) (Government notice No. R. 1234, under the customs act, 1955, amending the first schedule, No. 1/50, to the said act).—19 August 1960

Makes specific provision in the customs tariff for lobster nets at the rates of duty indicated.

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- M
61-02850
- Union of South Africa. Laws, Statutes, etc. (1960)**
Govt Gaz., S. Afr., extra, (6515) : 5
 No. R. 1236. Doeane wet, 1955. Wysiging van die tweede bylae (No. 2/41) (Government notice No. R. 1236 under the customs act, 1955, amending the second schedule, No. 2/41, to the said act).—19 August 1960

Polymerized refined fish oil may be imported or taken out of bond under rebate of duty by registered manufacturers for use in the manufacture of smoked small fish in oil.

- M
61-02851
- U.A.R. (Syria). Laws, Statutes, etc. (1960)**
Rec. Lois Législ. financ. U.A.R., (8) : 51

Arrêté n° 441 du 23 août 1960 soumettant l'exportation de la sardine au régime de la licence (Annexe du J.O. No. 36, 8 septembre 1960, p. 5809) (Order No. 441 subjecting sardine exports to a licence).—23 August 1960

- M
61-02852
- North Borneo. Laws, Statutes, etc. (1960)**
Govt Gaz. Col. N. Borneo, (35) : 330-1

Notification No. 512. No. A. 601/8: the customs (values) (Agricultural, forest, sea products and miscellaneous) (No. 9) Order, 1960? pursuant to the customs ordinance, cap. 33.—20 August 1960

Relates, *inter alia*, to dried and salted fish and fish refuse, fish—fresh or frozen.

- M
61-02853
- U.S. Treaties, etc. (1960)**
Treaties and oth. int. Acts. U.S.A., (4493) : 4 p.

Amendment to the annex to the convention on high sea fisheries of the North Pacific Ocean, signed at Tokyo May 9, 1952. Adopted at the Sixth Annual Meeting of the International North Pacific Fisheries Commission, Seattle, Washington, on November 7, 1959.—24 May 1960

Affects S 1(b) of the annex on herring fishing area.

- M
61-02854
- Venezuela. Laws, Statutes, etc. (1960)**
Gac. ofc., Rep. Venezuela, (26.349) : 195.361

Resolución No. RNR-266, por la cual se dictan normas a fin de proteger la especie denominada "pepionas" (*Arca occidentalis*) (Resolution No. RNR-266, prescribing regulations for the protection of the species known as "pepionas", *Arca occidentalis*).—2 September 1960

Open season on this mollusc is from Sep. to Apr.

- M
61-02855
- Tucker, D. W. (1960)**
Ann. Mag. nat. Hist., Ser. 13, 3 : 63-4

Note on the nomenclature of British clingfishes, with special reference to *Apletodon microcephalus* (Brook)

Ci 1954 Corbin, P. G. and 28-2742BO. Synonymy with *Lepadogaster microcephalus* and *L. couchii*.

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F

61-02856

Warwick, T. & K. H. Mann (1960)
Ann. Mag. nat. Hist., Ser. 13, 3 : 25-34
 The freshwater leeches of Scotland

Reviews occurrence, distribution and ecology of various spp. incl. *Hemiclepsis* and *Piscicola* spp., parasitic on fish.

M

61-02857

Rowell, A. J. (1960)
Ann. Mag. nat. Hist., Ser. 13, 3 : 35-52

Some early stages in the development of the brachiopod *Crania anomala* (Müller)

Rearing of specimens in samples taken periodically off Argyll, western Scotland.

MF

61-02858

Everard, C. O. R. (1960)
Ann. Mag. nat. Hist., Ser. 13, 3 : 53-9

The salinity tolerance of *Panagrolaimus rigidus* (Schneider, 1866), Thorne, 1937, and *Panagrolaimus salinus* Everard, 1958. (Nematoda : Panagrolaiminae)

Field observations in River Blackwater, England.

G

61-02859

Robertson, H. A. & I. R. Falconer (1960)
J. Endocrin., 21 : 411-20

The estimation of thyroid activity : an evaluation of certain parameters

Mathematical and experimental basis for the determination of a series of parameters of thyroid function is put forward.

MF

61-02860

Migdalski, E. C. (1960)*
 New York, Ronald Press Co., 218 p.

How to make fish mounts and other fish trophies

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61-201me to 61-240me

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| Conferences on Science and World Affairs. 5/9/61
Stowe, Vermont. 5 days
Conference on international cooperation in pure and applied science | G
61-201me |
| Alberta Resources Conference. 9/2/60
Edmonton, Alberta, Can.
2nd Meeting | MF
61-202me |
| Society of European Nematologists. 24/7/61
Ghent, Belgium. 5 days
6th International nematological symposium | MF
61-203me |
| NAS (US). 29/10/61
La Jolla, Calif., Los Angeles. 3 days
Meeting | MF
61-204me |
| Instrument Society of America. 26/9/60
New York. 5 days
15th Annual instrument-automation conference and exhibit | G
61-205me |
| American Geophysical Union. 26/1/61
Berkeley, Calif.
Pacific southwest regional meeting | MG
61-206me |
| Office of Naval Research/Netherlands Ship Model Basin. 19/9/60
Sheveningen, Neth. 4 days
3rd Symposium on naval hydrodynamics | M
61-207me |
| Oceanographic Institute, Florida University. 24/10/61
Tallahassee, Fla. 2 days
1st National conference on shallow water research, Gulf Coast | M
61-208me |
| Oceanographic Institute, Florida University. 27/10/61
Los Angeles, Calif. 2 days
1st National conference on shallow water research, Pacific Coast | M
61-209me |

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IAEA. 22/11/61 G
61-210me
Mexico City, D.F. 10 days
Radioisotopes in animal biology and the medical sciences, conf.

AAAS. 26/12/61 MF
61-211me
Denver, Colo. 6 days
Annual meeting

IMCO. 8/1/62 M
61-212me
London? U.K. 3 days
5th Marine safety committee

Marine Biological Association of India. 12/1/62 M
61-213me
Mandapam, India. 4 days
Symposium on scombroid fishes

NPFSC. 22/1/62 M
61-214me
Washington, D.C. 5 days
Meeting for review of fur seal research and management programs

Challenger Society. 31/1/62 M
61-215me
London, U.K. 1 day
213th Scientific meeting (jointly with British Glaciological Society)

W. Wittman will read paper on characteristics of the under-surface of sea ice.

Challenger Society/Representatives from M
61-216me
Marine Laboratories. 1/2/62
Wormley, Surrey, U.K. 2 days
Meeting

Will comprise one-day discussion on chemical oceanography covering Inter-calibration for Indian Ocean Expedition, comparative tests in Hawaii by F. A. J. Armstrong, and at Lowestoft and Aberdeen by P. G. W. Jones and R. Johnston, decisions of ICES Hydrographical Committee, and second day with following papers: A. H. B. Stride, "Some aspects of the geology of the continental shelf", J. Crease, "The variability of currents in the deep ocean", M. A. Johnson, "Turbidity currents", A. R. Stubbs, "Acoustic fish-detection", R. I. Currie, "The radiant energy received by phytoplankton", P. S. B. Digby, "Factors affecting pressure sensitivity in *Palaemonetes* and *Daphnia* and the gas layer theory", M. R. Clarke, "The identification of cephalopod beaks and their significance in systematic and ecological studies of squids and their predators", P. Foxton, "Experiments in closing the Isaacs-Kidd mid-water trawling".

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| IMCO. 20/2/62
London? U.K. 4 days
5th Session of the council | M
61-217me |
| UNESCO, Southeast Asia Science Cooperation Office. 5/3/62
Manila, Philippines. 4 days
Regional meeting of representatives of marine science institutions in east and southeast Asia | M
61-218me |
| CCTA/CSA. 6/3/62
Fort Lamy, Chad. 4 days
1st Meeting of the co-ordinating committee for Lake Chad—Meeting of hydrologists from countries bordering Lake Chad | F
61-219me |
| GLFC/Research Division. 9/4/62
Toronto, Ontario, Canada. 2 days
5th Conference on Great Lakes research | F
61-220me |
| UNESCO/IOC Bureau. 10/4/62
Paris. 3 days | M
61-221me |
| International Fisheries Fair. 14/4/62
Copenhagen, Denmark. 10 days
4th international fisheries fair | MF
61-222me |
| SCOR/ 16/4/62
Executive committee
London. 3 days
Meeting | M
61-223me |
| PCIFC. 8/5/62
Hamburg, Germany, 4 days
Meeting | MF
61-224me |
| Office of Naval Research/Information Systems Branch/ Armour Research Foundation. 22/5/62
Chicago, Ill. 3 days
Conference on self-organizing systems

Objective is to bring together research workers concerned with evolution of self-organizing information systems, to evaluate recent progress and consider the future directions of research. Emphasis placed upon the salient research of past three years. | G
61-225me |
| GLFC. 19/6/62
Ann Arbor, Mich. 2 days
Annual meeting | F
61-226me |

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| Shrimp Association of the Americas. 21/6/62
Mexico City, Mexico. 3 days
11th Annual meeting | M
61-227me |
| FAO. 2/7/62
La Jolla, Calif., U.S.A. 13 days
World scientific meeting on the biology of tunas and related species
Amendment to 61-140me | M
61-228me |
| FAO. 2nd half/8/62
Lebanon.
Near East regional conference | G
61-229me |
| AIBS/ASLO. 26/8/62
Corvallis, Oregon. 5 days
Meeting | MF
61-230me |
| The International Conference on Water
Pollution Research. 3/9/62
London. 5 days

Programme of Conference provides for separate symposia to take place simultaneously in three sections: I. Self-purification of fresh water streams and the effects of pollution on fisheries. II. Treatment of sewage and industrial wastes. III. Effects of pollution on the marine environment. | F
61-231me |
| FAO. 2nd and 3rd week/9/62
Malaya.
Asia and Far East regional conference | G
61-232me |
| ICES. 28/9/62
Copenhagen, Denmark. 24 days
Symposium on problems in the exploitation and regulation of fisheries for Crustacea | M
61-233me |
| SPC. 1/10/62
Noumea, New Caledonia. 10 days
Fisheries technical meeting | MF
61-234me |
| IAEA. 8/10/62
Vienna. 6 days
Symposium on the treatment and storage of high level radioactive wastes | G
61-235me |
| GCFI. 12/11/62
Galveston, Texas, U.S.A. 5 days
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61-236me |

MEETINGS

National Fisheries Institute. 19/4/63 61-237me
Philadelphia, Pa., U.S.A. 6 days
Meeting

FAO. last week/5/63 MF
London, U.K. 61-238me
2nd International fishing gear congress

International Congress of Zoology. 21/8/63 G
Washington. 7 days 61-239me
16th Congress

IUGG. last week/8/63 M
Berkeley, Calif. 12 days 61-240me
Symposium on oceanographic instrumentation

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Influence of cod pituitary extracts on the uptake of ^{131}I by the thyroid of the rainbow trout. Activity does not seem to vary much during the biological cycle of this sp. Signification of observed differences is discussed in relation to variations of activity of the thyroid and of the gonads.

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 Tuna fish—Report on investigation conducted pursuant to a resolution by the Committee on Finance of the United States Senate dated August 20, 1957
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 The effects of low temperatures on the physiology and distribution of the cod, *Gadus morhua* L., in the Barents Sea
 Formulates hypothesis that temperature had a real effect upon the cod, acting as a physiological limit, possibly operating through the breakdown of the mechanism of osmotic regulation; and that the temperature limit of the cod might vary during the course of the year in accordance with changes in the physiology of the fish, which were probably controlled by the activity of glands of the endocrine system. Tested and confirmed this hypothesis in Barents Sea by analysis of blood of freshly caught and killed fish, and histological study. Discusses, in light of these results, historical changes in cod distribution and stock size, in relation to climatic changes.

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- Essentials of observations on various methods of fishculture practised in Indonesia.
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- Description, handling and possibilities of apparatus used in salmon and trout culture.
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 L'octomitiase des truites arc-en-ciel et fario (The octomitiase of rainbow and fario trout)
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Les poissons carnassiers de repeuplement (Carnivorous fishes for stocking)

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Results of scientific observations of 'Tiare'—Cruise "Dauphin", 8-14 Aug. 1959, under the order of the lieutenant Cerbelaud)

Tabular oceanographical data from New Caledonian waters with short summary notes.

Italy. Istituto di Idrobiologia "Dott. Marco de Marchi" (1959)F
61-03075*Mem. Ist. ital. Idrobiol. de Marchi*, 11 : 272 p.

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I. concetto moderno di nicchia ecologica (The modern concept of ecological niches). En

Defines the concept in such a way that the Volterra-Gause principle that 2 coexisting spp. do not occupy the same niche is an inductive non-tautological generalization which applies only to equilibrium states. Equilibrium is probably never achieved where it does not apply. MacArthur devised two models for distribution of number of individuals in a sp. These models apply only to biological associations of organisms of about the same size, living in homogeneously diverse biotopes, in which the mean free paths of the organisms in question are large compared to the elements of the environmental mosaic.

Tonolli, L. (1959)F
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 Varese, and Mergozzo.
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 of the correlation between the form of the shell and an anatomical character in
 the populations of *Lymnaea radix* in Lake Maggiore). En
 Correlation between length of sperm duct—which is a certain means of
 separating the two forms *L. auricularia* and *L. peregra* in L. Maggiore having
 stations with mono-specific and mixed populations and a linear discriminant
 function which is derived from four indices, two ratios of breadth to length
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Mem. Ist. ital. Idrobiol. de Marchi, 11 : 213-38
 Larve di cestodi nei copepodi del Lago Maggiore (Larvae of cestodes in
 copepods of Lake Maggiore). En
 Spp. of *Proteocephalus* infesting spp. of *Eudiaptomus*, *Cyclops*, *Mesocyclops*
 and *Mixodiaptomus*. Definitive hosts are *Alosa finta* and *Coregonus lavaretus*.
 Geographic variation in infestation rate, and the effect on this of variations in
 body size of the copepods.
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Dtsch. FischZtg., 6 (9) : 281-2
 Beeinflussung des Wachstums von Karpfen durch die einmalige intraperito-
 neale Injektion antibiotischer Mittel beim Besetzen der Teiche (Influencing
 the growth of carp with a single intraperitoneal injection of an antibiotic before
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 Describes experiments and compares results obtained from treated and un-
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 Analysed in detail. Methods of solving equation are briefly discussed. Theory is applied to problems in tracer kinetics in which input and output are sums of exponentials, and explicit formulae, which are applicable whether or not the pool is uniformly mixed, are derived for "turnover time" and "pool" size.
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Williams, E. J. (1959)

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J. R. statist. Soc., 21B (2) : 396-9

The comparison of regression variables

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Cox, D. R. (1959)

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J. R. statist. Soc., 21B (2) : 411-21

The analysis of exponentially distributed life-times with two types of failure

A number of alternative probability models are considered for the interpretation of failure data. Some of the statistical techniques that can be used for such data are ill. on an example discussed recently by Mendenhall & Hader.

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Om växlingarna i strömmingsbeståndet (On fluctuations in the herring stock)

Year class composition and relative size of the stocks of Baltic herring in the waters around Finland and methods of prediction of herring catches in coming years. Comparison of predicted catches with real catches.

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DA 21 (3) : 437. Final results in a series of theses and published papers dealing with the measurement and description of the distribution of individual plants in the plant community. A new method of estimation of population parameters and evaluation of the distribution of a sp. within a specific area with no *a priori* assumption of randomness of the sp. is presented.

- Bramer, H. C. (1960)** F
61-03203
 Thesis, Univ. of Pittsburgh, USA, 216 p.
 The economic aspects of the water pollution abatement program in the Ohio River Valley

DA 21 (3) : 478. Considered on basis of quantitative data for year 1958. Methodology of a study of the economics of water pollution abatement in a river basin given, attention directed to need for additional data in certain specific areas. Total net cost of pollution abatement shown to be critically dependent upon the effects upon water uses for recreation.

- Hull, C. H. (1960)** F
61-03204
 Thesis, The John Hopkins Univ., USA, 91 p.
 Simplified technique for determination of theoretical and effective self-purification coefficients of polluted streams

DA 21 (3) : 582-3. Technique requires only three measurements: temperature, dissolved oxygen, and BOD and appears to offer many possibilities for studying the oxygen balance of water in both laboratory and field investigations.

- Padgett, H. R. (1960)** M
61-03205
 Thesis, Louisiana State Univ., USA, 378 p.
 The marine shellfisheries of Louisiana

DA 21 (3) : 588. Geographical study. Scrutiny of literature: hydrographic principles, geology and composition of sea bottoms, marine biology, climate, history of fisheries, and State and Federal public documents. Influence of New England fisheries on the entire southern region. Shrimp, oyster, blue crab.

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- Aldrich, L. E. (1960)**
Thesis, Oregon State Coll., USA, 114 p.
Digenetic trematodes from marine fishes in the San Juan Archipelago
- DA 21 (3) : 703. Host fishes for this study were collected during the summer of 1957. 193 fishes were examined for intestinal parasites, and of these, 150 belonging to 32 spp. were found to be infected. *Fellodistomum phrissovum* n.sp., *Zoogonus dextrocirrus* n.sp.
- MF
61-03207
- Anderson, W. D., Jr. (1960)**
Thesis, Univ. of South Carolina, USA, 222 p.
The fishes of some South Carolina coastal plain streams
- DA 21 (3) : 703-4. Area investigated is in the southeastern portion of South Carolina bounded by the Edisto and Savannah River drainages, but incl. neither. From 159 stations approximately 26,400 specimens representing 15 orders, 39 families, 70 genera, and 102 spp. were collected and identified. The spp. list shows 45 freshwater, 33 euryhaline, 18 shore, and 6 pelagic forms.
- F
61-03208
- Meyer, F. P. (1960)**
Thesis, Iowa State Univ. of Sci. and Technol., USA, 148 p.
Life history of *Marsipometra hastata* and the biology of its host, *Polyodon spathula*
- DA 21 (3) : 709-10. Various stages of cestode parasite of the paddlefish have been reared in laboratory. *Cyclops bicuspidatus* Claus serves as intermediate host. Study of food habits of the paddlefish. Spawning behaviour, histological examinations, growth studies, and field observations indicate that individual fish do not spawn annually, but at irregular intervals of four to seven years. Morphometric studies, length-weight relationship, condition factors, cross-sections of dentary bone cleared in xylol provided satisfactory index to age.
- M
61-03209
- Tikasing, E. S. (1960)**
Thesis, Oregon State Coll., USA, 64 p.
Endoparasitic gastropods of Puget Sound holothurians
- DA 21 (3) : 710-1. *COMENTEROXENOS parastichopoli*, n. gen., n. sp., found in *Parastichopus californicus* (Stimpson). *Thyonicola mortenseni* Mandahl-Barth found in *Cucumaria miniata* (Brandt) and *C. lubrica* H. L. Clark. New sp. of *Thyonicola* described as *T. americana* from the 2 spp. of *Eupentacta* examined.
- M
61-03210
- Voipio, A. (1959)**
Suom. Kemistilehti, 32B : 61-5
On the alkaline-earth metal and magnesium contents of sea water
- Analysis of samples from Barents Sea for ratios of alkaline-earth metals and magnesium to chlorinity.

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Hydrurga leptonyx, de Blainville)
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Mammalia, 24 (3) : 459-67
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- Niggol, K. & C. H. Fiscus, Jr.** (1960)
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- Kenyon, K. W.** (1960)
Mammalia, 24 (3) : 431-44
 Territorial behaviour and homing in the Alaska fur seal
Callorhinus ursinus.
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- Ingham, S. E.** (1960)
Mammalia, 24 (3) : 422-30
 The status of seals (Pinnipedia) at Australian antarctic stations
- M
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- Anon.** (1960)
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- List of spp., with notes, collected Mar.-Apr., 1959, from inter-tidal zone; records 11 additions to the known fauna.
- MF
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Ann. Mag. nat. Hist., 3 (27) : 129-31
Molgula dolichentera, a new species of ascidian from eastern Nigeria
- Diagnosis and ill. description of specimens collected from raft panels on Bonny River, 11 Feb. 1958.
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- Kabata, Z.** (1960)
Ann. Mag. nat. Hist., 3 (27) : 133-9
 On the specificity of *Lernaeocera* (Copepoda Parasitica)
- Discusses mainly ecology of *L. branchialis* hosts of juveniles commonly Pleuronectidae and Cyclopteridae; of adults spp. of *Gadus*. Area differences. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (138).
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Ann. Mag. nat. Hist., 3 (27) : 141-4
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- Ill. description and discussion of specimen taken 10 May 1959 in NE Atlantic, plankton haul.
- M
61-03223
- Palmer, G.** (1960)
Ann. Mag. nat. Hist., 3 (27) : 149-51
 The first record of a frogfish (*Antennarius*) from Irish waters
- Descriptive note on prejuvenile specimen of *A. radiosus* taken off W. coast of Ireland in night plankton haul.
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61-03224
- Steinitz, H. & A. Ben-Tuvia** (1960)
Ann. Mag. nat. Hist., 3 (27) : 161-75
 The cichlid fishes of the genus *Tristramella* Trewavas
- Ci 1942 Trewavas, E., 561406 and 61-02063. Revision of 3 spp. from waters of Jordan River, Lakes Huleh and Tiberias, and Damascus area.

Wheeler, A. C. (1960)

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61-03225

Ann. Mag. nat. Hist., 3 (27) : 177-81

Gobius capito as a British fish

Purpose of this note is to record several new localities, S. Cornwall and Scilly, in which this fish has been found, and to attempt to clarify the very obscure literary evidence of the sp. in Britain. General notes on natural history are given, and also on characters of closely related spp.

Williams, F. (1960)

M
61-03226

Ann. Mag. nat. Hist., 3 (27) : 183-92

On *Scomberomorus lineolatus* (C.V.) 1831, from British East African waters (Pisces, Scombridae)

Ci 1956 Williams, F. Identifies and describes important food fish from Zanzibar left in doubt in 1956 paper.

Kozicka, J. (1959)

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Acta parasit. polon., 7 (1/12) : 1-72

Parasites of fishes of Druzno Lake (Parasitofauna of the biocoenosis of Druzno Lake. Part 8). Pl

HA 28 (1) 1a. 22 spp. were examined and found to be parasitized by protozoa, helminths, Hirudinea, molluscs and Crustacea.

Garrod, D. J. (1961)

F
61-03228

CCTA/CSA, Hydrobio (IV) 61 (12), mimeo, 6 p.

Nécessité des recherches sur la dynamique biologique des espèces tropicales, surtout du "ningu" (*Labeo victorianus*) du Lac Victoria (Need of population dynamic studies of the tropical species, mainly "ningu", *Labeo victorianus*, of Lake Victoria)

Do 60-348me. Reviews development of fisheries and recommends research required for understanding the dynamic of population of the spp.

Golvan, Y. J. (1959)

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61-03229

Ann. Parasit. hum. comp., 34 (1/2) : 5-52

Le phylum des Acanthocephala. Deuxième note. La classe des Eoacanthocephala (Van Cleave, 1936) (The phylum of Acanthocephala. Second note. The order Eoacanthocephala, Van Cleave, 1936)

Co 60-4152. HA 28 (1) 10a. Revised classification of the class. A host-parasite list for the spp.

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Čsl. Parasit., 6 (1) : 73-85

Nálezý dalších druhů rodu *Gyrodactylus* Nordmann (Monogenoidea) v ČSR (Discovery of some more species of the genus *Gyrodactylus* Nordmann (Monogenoidea) in Czechoslovakia). De

HA 28 (1) 29c. Reports on the finding of: *Gyrodactylus decorus* from *Alburnus alburnus*, *Rutilus rutilus* and *Scardinius erythrophthalmus*; *G. gobionium* from *Gobio gobio*; *Gyrodactylus laevis* from *Phoxinus phoxinus*; *G. longiradix* from *Acerina cernua*, *Perca fluviatilis* and *Lucioperca lucioperca*; *G. macronychus* from *Phoxinus phoxinus*; *G. nemachili* from *Nemacheilus barbatulus*; *G. wagneri aphyae* from *Phoxinus phoxinus*; *G. wagneri cernuae* from *Acerina cernua*; *G. wagneri lucii* from *Lucioperca lucioperca* and *G. parvicopula* from *Rutilus rutilus* and *Abramis brama*. The monogeneans are described in detail with ill.

F

61-03231

Ergens, R. (1959)

Čsl. Parasit., 6 (1) : 87-92

Nálezý dalších druhů rodu *Dactylogyrus* Diesing (Monogenoidea) v ČSR a vliv lokalisace na morfologické změny chitínových částí haptoru *Dactylogyrus hemiamphibothrium* (Discovery of some more species of the genus *Dactylogyrus* Diesing (Monogenoidea) in Czechoslovakia and the influence of the habitat on the morphological changes in *Dactylogyrus hemiamphibothrium*). De

HA 28 (1) 29d. Completing the list of trematodes found in fish in 1956-57, describes 4 more spp.: *Dactylogyrus chondrostomi* from *Chondrostoma nasus*; *D. minor* from *Alburnus alburnus*; *D. suecicus* from *Rutilus rutilus* and *D. nanus* from *R. rutilus* and *A. alburnus*. Also describes *D. hemiamphibothrium* found on the fins of *Acerina cernua*.

MF

61-03232

Walton, A. C. (1959)

J. Parasit., 45 (1) : 1-20

Some parasites and their chromosomes

HA 28 (1) 40a. Summarizes information on the chromosome numbers of a large number of parasites of different groups and comments on the taxonomic value of this data.

M

61-03233

Sarmiento, L. (1959)

J. Parasit., 45 (1) : 65-8

Description of *PARATRACTIS hystrix* (Diesing, 1851) gen. nov. (Nematoda: Atractidae) from *Podocnemis dumeriliana*

HA 28 (1) 40c. Redescribes *Ascaris hystrix* Diesing, 1851 (Nematoda) from a water turtle collected at Pucallpa, Peru.

M

Thomas, J. D. (1959)

61-03234

J. Parasit., 45 (1) : 95-113

Trematodes of Ghanaian sub-littoral fishes. 1. The family Monorchidae

HA 28 (1) 40h. Describes and figures five monorchiid trematodes from marine sublittoral fish caught off the coast of Ghana. Four of these are new to science and *Lasiotocus longicaecum* from *Lethrinus atlanticus* constitutes a new host and geographical record; *Lasiotocus cynoglossi* n. sp. from *Cynoglossus goreensis*; *L. chaetodipteri* n. sp. from *Chaetodipterus lippei*; *Hurleytrema trachinoti* n. sp. from *Cynoglossus goreensis*.

M

Williams, H. H. (1959)

61-03235

Parasitology, 49 (1/2) : 39-53

The anatomy of *Köllikeria filicollis* (Rudolphi, 1819), Cobbold, 1860 (Trematoda: Digenea) showing that the sexes are not entirely separate as hitherto believed

HA 28 (1) 47b. Detailed an ill. redescription. Cysts from the epithelium inside the operculum of *Brama raii*.

M

Williams, H. H. (1959)

61-03236

Parasitology, 49 (1/2) : 54-69

The anatomy of *Phyllobothrium sinuosiceps* sp. nov. (Cestoda: Tetraphyllidae) from *Hexanchus griseus* (Gmelin) the six gilled shark

HA 28 (1) 47c.

F

Jain, S. L. (1959)

61-03237

Parasitology, 49 (1/2) : 153-68

Monogenea of Indian freshwater fishes. 8. *SPROSTONIA*, a new genus of freshwater Tetraonchinae, with the descriptions of four new species, from the gill filaments of fishes, from Lucknow

HA 28 (1) 47h. Co 59-7434. *S. indica* n. sp., genotype, was recovered from gills of *Eutropiichthys vacha*, *S. wallagonia* n. sp. from *Wallagonia attu*, *S. gomia* n. sp. from *E. vacha* and *S. asiatica* n. sp. from *Callichrous pabda*.

F

Erasmus, D. A. (1959)

61-03238

Parasitology, 49 (1/2) : 173-90

The migration of *Cercaria* X Baylis (Strigeida) within the fish intermediate host

HA 28 (1) 47j. Describes penetration from *Lymnaea stagnalis* into *Gasterosteus aculeatus*, and its subsequent migration through the tissues to the lens of the eye.

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Rees, G. (1959)
Parasitology, 49 (1/2) : 191-209

DITRACHYBOTHRIIDIUM macrocephalum gen. nov., sp. nov., a cestode from some elasmobranch fishes

HA 28 (1) 47k. From *Raja fullonica*, *R. circularis* and *Scyliorhinus caniculus*.

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61-03240

Lucký, Z. (1959)
Sborn. vys. Šk. zeměd. Oesn. Brno, 7 (1/3) : 353-77

Príspevek k poznání žabrohlístů jižní Moravy, 2 (Contribution to the knowledge of the trematodes in southern Moravia, 2). Ru De

HA 28 (1) 60d. Completes the list of trematodes from fish in south Moravia commenced in 1957. (See HA 26, No. 450c). Descriptions of *Dactylogyrus auriculatus* from *Abramis brama*, *D. borealis* from *Phoxinus phoxinus*, *D. difformis* from *Scardinius erythrophthalmus*, *D. hemiamphibothrium* from *Acerina cernua*, *D. malleus* from *Barbus barbus*, *D. minor* from *Alburnus alburnus*, *D. minutus* from *Cyprinus carpio*, *D. nybelini* from *Chondrostoma nasus*—this figures in the 1957 list under the provisional name of *D. chondrostomi*; *D. vranoviensis* from *Leuciscus cephalus*, *Gyrodactylus decorus* from *S. erythrophthalmus*, *G. longiradix* from *Acerina cernua*, *G. nemachili* from *Nemacheilus barbatulus*, *G. vimbi* from *Vimba vimba*, *G. wagneri cernuae* from *A. cernua*, *G. wagneri scardini* from *S. erythrophthalmus*.

F

61-03241

Fahmy, M. A. M. & M. K. Selim (1959)
Z. Parasitenk., 19 (1) : 3-13

Studies on some trematode parasites of dogs in Egypt with special reference to the role played by fish in their transmission

HA 28 (1) 76a. Dogs fed experimentally on *Mugil capito* and *Tilapia nilotica* harboured *Echinochasmus liliputanus*, *Prohemistomum vivax*, *Heterophyes heterophyes*, *H. dispar*, *Haplorchis* spp., *Pygidiopsis genata* and *Stictodora sawakinensis*.

M

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Schwartz, F. J. (1959)
Conserv. Mag., May, repr., unpag. : 4 p.

Confusing fishes of West Virginia. Part 2

Key for identification of centrarchid fish *Micropterus salmoides*, *M. dolomieu* and *M. punctulatus*. Issued also as: *Misc. Publ. Md Dep. Res. Educ.*

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61-03243

Schwartz, F. J. (1959)
Conserv. Mag., September, repr., unpag.: 3 p.

Confusing fishes of West Virginia. Third and final part

Co 61-03242. Ill. key for identifications of centrarchid fish *Ambloplites rupestris*, *Lepomis cyanellus* and *Chaenobrytus coronarius*. Issued also as: *Misc. Publ. Md Dep. Res. Educ.*

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Schultz, L. P. et al. (1960)

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Bul. U.S. nat. Mus., (202) : 438 p.

Fishes of the Marshall and Marianas Islands. Vol. 2. Families from Mullidae through Stromateidae

A catalogue containing keys to genera and spp. and description of spp. of the families Mullidae, Pomacentridae, Labridae, Acaridae, Cirrhitidae, Mugiloididae, Trichonotidae, Clinidae, Blenniidae, Brotulidae, Carapidae, Schindleriidae, Callionymidae, Scombridae, and Stromateidae.

MF

Tollefson, R. et al. (1959)

61-03245

182 p.

A summary of fishery statistics of the Pacific coast

Tabulated data compiled, incl. some previously unpublished, for landings, by spp., year, month, gear; W. coast of US and Canada prepared by consultant with assistance of state, interstate, national and international agencies concerned. Deals with salmonids, sturgeons, molluscs, crustaceans, herring, gadoids, pleuronectids, pilchard, albacore and rock fish.

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Figueiredo, J. Mousinho (1960)

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Bol. Pesca, 13 (66) : 29-37

Pescarias de baleia nas províncias africanas portuguesas (Whale fisheries in the Portuguese African provinces)

A review of whaling in Angola, Mozambique and S. Tomé with recommendations for future exploitations and biological research.

M

Rego, C. A. Figueiredo Salgueiro (1960)

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Bol. Pesca, 13 (66) : 69-78

O estado actual da indústria de pesca na província ultramarina da Guiné e o seu provável incremento (Present status of the fishing industry in the overseas province of Guinea and its possible increment)

Co 60-1505. Review of the industry and recommendations for further exploratory study of the resources of the area.

M

Neves, A. Oliveira (1960)

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Bol. Pesca, 13 (66) : 79-87

A pesca de atuns—Suas possibilidades em Angola (Tuna fisheries—Its possibilities in Angola)

A review of the fisheries and recommendations for biological investigation of *Neothunnus albacora*, *Parathunnus obesus* and *Katsuwonus pelamis*.

M

Devoluy, R. P. (1959)

61-03249

Industr. Engng Chem., 51 : 79A-80A

Corrosion prevention for marine equipment

CFA 12 (9) : 3.

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- Anon.** (1959)
Nat. Fisherm., 40 (13) : 32
 Air curtain concentrates Maine herring
 CFA 12 (9) : 5.

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61-03251
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 INPFC Doc. No. 317, mimeo, 2 p.
 Progress report salmon racial sampling—1959

This marks the fifth year of the sampling program for racial studies. Efforts have been made to sample the major red, chum and pink salmon stocks throughout their geographic range in the N. Pacific Ocean, Bering Sea and adjacent coastal areas.

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Note on article by G. Hempel (1960) in *Umschau*, (15) : 466, on effect of weather on fish catches.

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New Scient., 8 (208) : 1279
 Heavier-than-water submarines ?

Le 61-01539.

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New Scient., 8 (212) : 1506
 A successor to the 'Discovery'

Note on proposed new British research vessel.

- F
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- Anon.** (1960)
New Scient., 8 (212) : 1509
 War on the coypu

Note on control in Britain of *Myocastor coypus*; work by E. A. Ellis reported to Mammal Society of British Isles on effect of browsing in opening up reedy waters.

- F
61-03256
- Anon.** (1960)
New Scient., 8 (212) : 1510
 Inland waterway from the Urals to the Channel?

Note, with map on ECE of UN scheme for European and Russian inland waterways network.

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New Scient., 8 (212) : 1530-2
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- Article on report to UN by P. Auger, incl. sections on oceanography, water pollution, conservation, and documentation.
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New Scient., 8 (212) : 1544
 Alga selects isotopes
- Differential uptake of C-13 and C-12 from mixtures by *Chlorella*, reported by P. H. Abelson & T. C. Hoering, Geophysical Laboratory, Carnegie Institution of Washington.
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61-03259
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New Scient., 8 (212) : 1544
 Growth by polarized light
- Note on polanotropism, incl. growth by *Fucus*.
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61-03260
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Biochem. J., 78 : 352-9
 Comparative studies of 'bile salts'. 13. Bile acids of the leopard seal, *Hydrurga leptonyx*, and of two snakes of the genus *Bitis*
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- Preliminary report on fish populations.
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Gorgonias del litoral de la costa norte de Cuba (Gorgonids from the shore of the north coast of Cuba)
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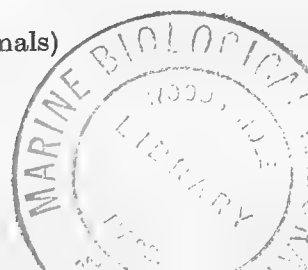
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Diary with notes on catches and fishing conditions.
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 Data on sea water temperatures and results of experimental fishing.
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 Forsøk med størjenot av nylon (Experiment with nylon tuna seine)
 Results of the experiment with notes on the handling of the gear and catches.
- M
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 Leiting etter størje med fly i sesongen 1958 (Search for tuna with airplane during the season of 1958)
 Extracts from journal on sight of tunas.
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 Extracts from diary of the trip with emphasis on catch.
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Results of the test of reflecting materials on buoys and float of fishing gear and its advantages for fishery.

France. Institute Scientifique et Technique des Pêches Maritimes (1959) 61-03430

Sci. Pêche, (75) : 4 p.

La pêche au chalut en Mauritanie (The trawl fishery in Mauritania)

Chart of fishing areas, fishing season, sizes of catches, depths; capture of *Merluccius*, *Dentex*, *Sparidae*, *Solea*, *Psettodes* and other spp.

Germany. Federal Republic. Bundesministerium für Ernährung, Landwirtschaft und Forsten (1960) 61-03431

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Monthly compilation of press releases, and extracts and digests from periodicals of information relating to all aspects of fisheries of all countries.

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FAO in the N.E., 2 (2) : 38 p.

Contains section "Fisheries notes" concerning activities of FAO and governments in this region.

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VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-241me to 61-270me

**Symposium on the physiology and ultra structure of *Hydra* and
of some Coelenterates.** 29/3/61 M
61-241me
Coral Gables, Fla. 5 days

**Consejo Superior de Investigaciones Científicas Sección de
Petrografía Sedimentaria.** 16/10/61 M
61-242me
Seville, Spain. 6 days
Meeting of the Spanish group on sedimentology

IAEA. 19/3/62 MF
61-243me
Monaco. 12 days
2nd Meeting of the panel on the legal implications of disposal of radioactive
waste into the sea

FAO. 6/8/62 M
61-244me
Rome, Italy. 5 days
New advisory committee on marine resources research

UNESCO. 16/10/61 MF
61-245me
N. Delhi. 5 days
8th Session of the international advisory committee on research in natural
sciences

**Germany. Federal Republic. Bundesministerium für
Ernährung, Landwirtschaft und Forsten.** 2/2/62 MF
61-246me
Berlin. 10 days
2nd International agricultural film competition

32 countries enter the competition with 87 films on various subjects under
research, instructions, advisory work, public relations and general propaganda.
Incl. films on fisheries.

Botanical Society of the British Isles. 28/4/62 G
61-247me
London, U.K. 1 day
Annual general meeting
Meeting of members of the Society.

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- Geological Society of America** *et al.* 2/11/61 G
61-248me
Cincinnati, Ohio, U.S.A. 3 days
Annual meetings
- Incl. scientific sessions on economic geology; engineering geology; principles of paleoecology; mineralogy; coal geology; hydrogeology; inorganic and organic geochemistry; and other selected subjects.
- Society of Naval Architects and Marine Engineers.** 15/11/61 M
61-249me
New York, N.Y., U.S.A. 4 days
Annual meeting
- WMO, Commission for Synoptic Meteorology.** 9/1/62 G
61-250me
Toronto, Canada. 11 days
Meeting of the working group on code problems
- IMCO.** 20/2/62 M
61-251me
London? U.K. 4 days
6th Session of the Council
- Amendment to 61-217me.
- INPFC.** 7/3/62 M
61-252me
Juneau, Alaska. 2 days
Meeting
- FAO.** 26/3/62 G
61-253me
Rome, Italy. 3 days
1st Session of the preparatory committee of the 1963 world food Congress
- ICES.** 16/4/62 M
61-254me
Gothenburg, Sweden. 2 days
Meeting of the Baltic Sea oceanographic group
- Institute of Marine Engineers.** 7/5/62 M
61-255me
London, U.K. 6 days
International conference of marine engineers
- IHB.** 8/5/62 M
61-256me
Monte Carlo, Monaco. 1 day
8th International hydrographic conference
- Amendment to 61-151me.

MEETINGS

- | | |
|---|---------------------------------|
| <p>American Fisheries Society, Northeast Division. 13/5/62
 New York, U.S.A. 4 days
 Annual meeting</p> | <p>MF
 61-257me</p> |
| <p>European Federation of Chemical Engineering. 31/5/62
 Athens, Greece. 4 days
 European symposium on freshwater from the sea

 39th event. Amendment to 61-167me.</p> | <p>M
 61-258me</p> |
| <p>International Federation of National Societies of Parasitologists (provisional). May 1962
 Warsaw, Poland.
 Proposed preparatory meeting of representatives of national constituents (15 societies)</p> | <p>61-259me</p> |
| <p>Washington. State University. 18/6/62
 Friday Harbor, Wash., U.S.A. 69 days
 Summer courses, in two terms, in marine algology, oceanographic meteorology, advanced zooplankton ecology, marine invertebrate zoology, and marine mycology

 NSF funds available for graduate support.</p> | <p>M
 61-260me</p> |
| <p>South American Congress of Zoology. July 1962
 Sao Paulo, Brazil.
 2nd Congress</p> | <p>MF
 61-261me</p> |
| <p>Water Pollution Control Federation. 8/10/62
 Toronto, Canada. 4 days
 35th Annual meeting</p> | <p>MF
 61-262me</p> |
| <p>FAO. 18/8/62
 U.S.S.R. 42 days
 Seminar and study tour on gear technology</p> | <p>MF
 61-263me</p> |
| <p>IUGG. last week Aug. 1962
 Berkeley, Calif., U.S.A.
 Symposium on oceanographic instrumentation</p> | <p>M
 61-264me</p> |

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

Kansas. State University. 4/9/62 G
61-265me
Lawrence, Kansas, U.S.A. 3 days
International conference on taxonomic biochemistry, physiology and serology

Purpose of conference is to assemble biological scientists who are making comparisons of organisms at the molecular level and who are interested in the taxonomic and evolutionary implications of their researches.

ICES. 28/9/62 M
61-266me
Copenhagen, Denmark. 2 days
Symposium on problems in the exploitation and regulation of fisheries for Crustacea

Amendment to 61-233me.

IAL. 15/10/62 F
61-267me
Bratislava, Czechoslovakia. 6 days
7th Annual meeting of the Arbeitsgemeinschaft Donauforschung

Operations Research Society of America. Nov. 1962 G
61-268me
Philadelphia, Pa., U.S.A.
22nd National meeting

INPFC. 12/11/62 MF
61-269me
Seattle, Wash., U.S.A. 6 days
9th Annual meeting

American Society of Zoologists, Division of Comparative Physiology. 1962 M
61-270me
U.S.A.
Symposium on echinoderm physiology
(Organized by Prof. R. A. Boolotian.)

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MF

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MF

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 O prichinakh snizheniia chislennosti Sakhalinskoi gorbushi v 1958 g.
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- MF
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 Gidrostroitelstvo i rybopropusknye sooruzheniia (Hydro-electric constructions and fish-passing facilities)

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En 60-7414. Demonstrates the influence of regime of Kuro-Sio on abundance of *Oncorhynchus keta* of western Kamchatka.

- MF
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- Cherniavskaia, I. K.** (1959)
Ryb. Khoz., 35 (9) : 22-4

Effektivnost raboty rybovodnykh savodov Sakhalinskoi oblasti (The effectiveness of the work of fish-cultural establishments in the Sakhalin region)

Briefly reports the activity of fish-cultural stations where artificial culture of salmonid fishes is carried out.

- MF
61-03687
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En 61-03686.

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Vliianie intensivnosti lova na zapasy kaspiskovo puzanka (Effect of intensity of fishing on the stocks of Caspian shad)

Shows that intensity of fishery, along with other factors, has effect upon abundance and composition of stocks of this sp.

- MF
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- Kazancheev, E. N.** (Ricker, W. E. Transl.) (1960)
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En 61-03688.

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Izuchenie kaltsievovo obmena s tseliu ispolzovaniia Ca^{45} v kachestve metki dlia ryb (A study of calcium metabolism with a view to utilizing Ca^{45} as a mark for fish)

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61-03691
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En 61-03690.

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 Account of mass marking of 1-1.2 gm young *Acipenser gouldenstadtii* to determine the survival rate under nature conditions after their release.
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Annual report of the Secretary Treasurer; list of members' names and addresses. This issue in three parts, with papers on biological systems, organization theory, and theory of stress respectively.

- FAO/NERO** (1960) MF
61-03784
 Cairo, Atlas Printing Press, 19 p.
 The freedom-from-hunger campaign

Incl. note by T. J. Job on possibilities of fisheries development in Middle and Near East.

- Johannessen, C. L. & J. A. Harder** (1960) M
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Science, 132 (3439) : 1550-1
 Sustained swimming speeds of dolphins

Observations of four large groups suggest that they are able to swim at a sustained speed of 14 to 18 knots. The blackfish are able to maintain speeds of about 22 knots, and one killer whale seemed able to swim somewhat faster.

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 Oceanographic cruise ends

Note on five-months cruise of R.V. 'Chain' in NE Atlantic.

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- Anon. (1960)**
Nature, Lond., 188 (4745) : 91-4
 Productivity of the sea and fresh water

Summary account of session of Section D (Zoology) of the British Association meeting at Cardiff dealing with general productivity of sea and accounts of productivity of central African lakes and effects of fertilizers on ponds in Malacca.

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- De Silva, N. N. & R. B. Hughes (1960)**
Nature, Lond., 188 (4751) : 663
 Effect of tetracycline antibiotics on the proteolysis of fish muscle

Presents results of experiments on storage of herring over 21-day period in normal and treated ices; and the effects on the amino-acids and changes in bacterial flora.

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- Stolk, A. (1960)**
Nature, Lond., 188 (4752) : 751-2
 Muscular dystrophy in the Siamese fighting fish as an aberration of the connective tissue

Results of a histochemical study of the ability of connective tissue in normal muscles and atrophied muscles of *Betta splendens* Regan, Siamese fighting fish, to diphosphorylate various, high-energy phosphates derived from adenosine monophosphate and some other compounds.

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Nature, Lond., 188 (4752) : 760-2
 Development of the electric organ of Mormyridae

Presents results of study of a number of young Mormyridae with regard to origin and development of the electric organ in these fish.

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- Allsopp, W. H. L. (1960)**
Nature, Lond., 188 (4752) : 762
 The manatee: ecology and use for weed control

Brief account of use of *Trichechus manatus* in weed control in pools and investigation canals in British Guiana.

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- Bainbridge, V. (1960)**
Nature, Lond., 188 (4754) : 932-3
 Occurrence of *Calanoides carinatus* (Kröyer) in the plankton of the Gulf of Guinea
 Describes distribution of zooplankton and relation to water temperature, and connection with fishing for *Sardinella aurita*.
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- Stride, A. H. & M. J. Tucker (1960)**
Nature, Lond., 188 (4754) : 933
 Internal waves and waves of sand
 New information on formation of waves of sand on La Chapelle Bank.
- M
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- Mann, T. (1960)**
Nature, Lond., 188 (4754) : 941-2
 Serotonin (5-hydroxytryptamine) in the male reproductive tract of the spiny dogfish
 Presents results of study of analyses of fluid in siphon sacs of spiny dogfish *Squalus acanthias* and possible role of serotonin in reproductive process.
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- Clarke, M. R. (1960)**
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Nature, Lond., 188 (4757) : 1158-60
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 Experiments with *Alcyonidium* and *Flustrellidra* spp. and extracts of *Fucus* and *Ascomphyllum* spp.
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- Crisp, D. J. (1960)**
Nature, Lond., 188 (4757) : 1208-9
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 A new species of *Merhippolyte* (Decapoda Natantia) from east American waters. Fr
 Describes sp. of Hippolytidae incl. in Caridea as *Systellaspis debilis*, Oplophoridae, by Boone 1930. Specimens taken by 'Albatross' off N. Carolina and near Yucatan.
- Costlow, J. D. & C. G. Bookhout** (1961) M
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Crustaceana, 2 (1) : 6-15
 The larval development of *Eurypanopeus depressus* (Smith) under laboratory conditions. De
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Crustaceana, 2 (1) : 16-20
 Fine structure of sperm tails of isopods. Fr
 Study of *Cyathura*, *Idotea* and *Oniscus* spp.
- Pike, R. B. & D. I. Williamson** (1961) M
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Crustaceana, 2 (1) : 21-5
 Larval variation in *Philocheras bispinosus* (Hailstone) (Decapoda, Crangonidae). De
 Describes laboratory study.
- Kinne, O.** (1961) M
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Crustaceana, 2 (1) : 26-36
 Growth, molting frequency, heart beat, number of eggs, and incubation time in *Gammarus zaddachi* exposed to different environments. De
 Experimental study.
- Yanagimachi, R.** (1961) M
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Crustaceana, 2 (1) : 37-9
 The use of cetyl alcohol in the rearing of the rhizocaphalan larvae. De
 Experiments with *Bopyrus*.

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- Bouligand, Y.** (1961)
Crustaceana, 2 (1) : 40-52
 Notes sur la famille des Lamippidae, 2e partie (Notes on the family Lamippidae, 2nd part). En

Describes type sp. *Lamippella faurei* parasitic in octorals *Alcyonium*, *Eunicella* and *Parerythropodium*. Also 3 spp. of *Lamippe* shown all to belong to 1 sp. *Lamippina aciculifera*.

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61-03807
- Dechancé, M.** (1961)
Crustaceana, 2 (1) : 53-67

Sur la morphologie externe des larves de pagurides. 1. *Catapaguroides timidus* (Roux) (On the external morphology of pagurid larvae. 1. *Catapaguroides timidus* (Roux)). En

Four zoea stages of this hermit crab are described and ill.

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- Monod, T.** (1961)
Crustaceana, 2 (1) : 68-77

Sur un isopode asellote du genre *Bagatus* recueilli sur un poisson du Sénégal (On an asellote isopod of the genus *Bagatus* found on a fish from Senegal). En

Describes *B. ichthyoxenos* n. sp. from branchial cavity of pediculate fish, and gives check list of known spp. of the genus.

- M
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- Fisher, L. R. & E. H. Goldie** (1961)
Crustaceana, 2 (1) : 78-9
 New records for two deep-sea decapods

Ci 59-3092. First records from Atlantic of pasiphaeid *Eupasiphë gilesi*, taken near Madeira, 'Discovery II', 5 May 1958, and from stomachs of long-line caught *Aphanopus carbo*; and of *Systellaspis cristata*, mid-water trawl, B. of Biscay, 18 Oct. 1959.

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- Thakur, M. K.** (1961)
Crustaceana, 2 (1) : 80

A note on cross-breeding between *Caridina weberi* var. *sumatrensis* and *C. rajadhari*

Experimental hybridization of these fresh-water prawns from localities around Bombay.

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- Manning, R. B.** (1961).
Crustaceana, 2 (1) : 81-2

Observations on *Microprosthema semilaeve* (Von Martens) (Crustacea, Decapoda, Stenopodidae) from Florida

Issued also as: *Contr. Mar. Lab. Univ. Miami*, (284). Coloration, behaviour measurements.

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 Do 60-196me. Describes and ill. methods of tagging *R. neglectus* using live boats to hold fish from stake nets, and flat dart tags. Notes on tag loss and tagging mortality. Numbers, sizes, times and places of liberation of 1,168 fish and recapture of 89 of them by various gears during the same year, 1960. Map attached.
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61-03814
 L (60) 226, mimeo, 10 p.
 Recommendations. Ref. L (60) 23 and addendum. *Fr*
 Lists participants and observers, topics discussed and summarizes recommendations made by the symposium.
- UNESCO. General Conference. Eleventh Session. Programme Commission. Paris, 14 Nov.-13 Dec. 1960** (1960) MF
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 11C/PRG/17, mimeo, 15 p.
 Item 17.2.1 of the agenda. Report of the Working Party on the report on the survey of the main trends of inquiry in the field of the natural sciences and recommendations for future action, including the question of preparing a draft agreement on international scientific and technical co-operation
 Do 60-265me.
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 Survey on the main trends of inquiry in the field of the natural sciences, the dissemination of scientific knowledge and the application of such knowledge for peaceful ends
 Contains sections on oceanography, fisheries research, hydrology, water pollution, scientific documentation, terminology and information services.
- ECOSOC (UN). Thirtieth Session. Agenda Item 3(e)** (1960) M
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 General review of the development and co-ordination of the economic, social and human rights programmes and activities of the United Nations and the specialized agencies as a whole. Co-ordination of the results of scientific research. Corrigendum
 Ad 61-03816. Amends section on earth and space sciences.

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- ECOSOC (UN). Thirtieth Session. Agenda Item 3(e) (1960)**
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Transl. Ser. Fish. Res. Bd Can., (256) : 16 p.
 The use of insecticides to control predaceous insects which are enemies of fish
- En* 561407. Predation and food competition with *Coregonus* and *Cyprinus* fry in ponds by Coleoptera, Hemiptera and Odonata. Experiments with DDT, hexachloran and kerosenefilm; effects studies also on carp fry and on *Daphnia*.
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- Ross, J. A.** (1959)
Spec. Sci. Rep. U.S. Fish Wildl. Serv., (332) : 1-9
 Mycobacteria in adult salmonid fishes returning to Federal hatcheries in Washington, Oregon and California
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- MF
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London, 35 p.
Whale oil and sperm oil. Main catch reports season 1959/60, 1960/61 and world production

Reports 1959/60 season's catches for Norway, Britain, Holland, Argentina, USSR and Japan. Incl. final catch reports and estimated world productions since 1930/31 season.
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London, H.M.S.O.
List of unclassified reports and papers published by staff of the Isotope Division since 1950
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Ci 28-4256BO. Issued also as: *Contr. Chesapeake biol. Lab.*, (147). Numbers, lengths and weights of comparable catches of 3 *Alosa* spp. in field tests of two types of nets of a range of mesh sizes.
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Chesapeake Sci., 1 (2) : 103–9
Selection of body site for scale samples in the white perch, *Roccus americanus*

Issued also as: *Contr. Chesapeake biol. Lab.*, (148). Scales from 13 areas of body studied to ascertain variability in calculated standard length at formation of first annulus. Area above lateral line between spinous and soft dorsal fin selected as sample site in study of population of Patuxent River, Maryland.
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61-03843
- Cargo, D. G. (1960)**
Chesapeake Sci., 1 (2) : 110
A megalops of the blue crab, *Callinectes sapidus*, in the Patuxent River, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (149). Record extends northward intrusion of this form in Chesapeake Bay 65 miles.

- Mansueti, R. J.** (1960) MF
61-03844
Chesapeake Sci., 1 (2) : 111-3
 An unusually large pugheaded striped bass, *Roccus saxatilis*, from Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (150). Six-year-old male exceeds previous size records. Literature is reviewed and factors that induce pugheadness, believed due to environment and heredity, and not mechanical injury, are discussed briefly.

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61-03845
Chesapeake Sci., 1 (2) : 114-5
 Notes on the nudibranch, *Elysia chlorotica*, from Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (151). Southward extension of reported former range which was Massachusetts to New Jersey. Brief discussion of ecological data and activity.

- Taylor, M. & R. J. Mansueti** (1960) M
61-03846
Chesapeake Sci., 1 (2) : 115-6
 Sounds produced by very young crevalle jack, *Caranx hippos*, from the Maryland seaside

Issued also as: *Contr. Chesapeake biol. Lab.*, (152). Dissection revealed well-developed upper and lower pharyngeal teeth indicating that burst of rapid, short, rasping croaks were produced as in the adults, upon being landed in a beach seine.

- Schwartz, F. J.** (1960) M
61-03847
Chesapeake Sci., 1 (2) : 116-7
 The barnacle, *Platylepas hexastylus*, encrusting a green turtle, *Chelonia mydas mydas*, from Chincoteague Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (153). First record of *Chelonia mydas mydas* in this bay.

- Mansueti, R. J.** (1960) M
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Chesapeake Sci., 1 (2) : 117-8
 The occurrence of the rough sead, *Trachurus lathamii*, in Chesapeake Bay, Maryland

Issued also as: *Contr. Chesapeake biol. Lab.*, (154). Recorded for first time. Captured in trawl at 60 feet, 21 Jul. 1958.

- Cargo, D. G.** (1960) F
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Chesapeake Sci., 1 (2) : 119-20
 Predation of eggs of the spotted salamander, *Ambystoma maculatum*, by the leech, *Macrobdella decora*

Issued also as: *Contr. Chesapeake biol. Lab.*, (155). Such predation ill. by photograph for first time in a small coastal plain pond in Maryland.

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61-03851
Chesapeake Sci., 1 (2) : 123-4
 An unusual winter survival of a young spadefish *Chaetodipterus faber*
 Issued also as: *Contr. Chesapeake biol. Lab.*, (159). A young-of-the-year was found to survive low winter temperatures in shallow tide-water a few feet from Chesapeake Bay, Calvert County, Maryland.
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Chesapeake Sci., 1 (2) : 122-3
 The correlation of length, weight and girth in the toadfish, *Opsanus tau*
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Chesapeake Sci., 1 (2) : 124-5
 Comments on the smooth dogfish, *Mustelus canis*, from Chesapeake Bay, Maryland
 Issued also as: *Contr. Chesapeake biol. Lab.*, (160). Five recent distributional records presented from widely separated localities.
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 Pesca exploratoria de la langosta con nasas, al sur de Camagüey, Cuba (Exploratory fishing for the spiny lobster with traps, south of Camagüey, Cuba)
 Catches of *Panulirus argus*, tagging, hydrographic conditions; recommendations for future work and development.
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Cornell Ext. Bull., (1036) : 3-31
 Managing farm ponds for trout production
 Publication discusses factors to consider in deciding whether or not to stock trout, design and construction features particularly valuable in trout ponds, results that can be expected from a trout pond, where and how to obtain trout for a farm pond, management practices for obtaining the most trout fishing from your pond.

M

Russell, F. S. (1961)

61-03856

J. Mar. biol. Ass. U.K., 40 : 1-3On a new deep-water *Trachymedusa*

Colobonema apicatum n. sp. described from 80 specimens taken by 'Discovery II' in N. Atlantic in Aug.-Sep. 1959.

M

Corner, E. D. S. (1961)

61-03857

J. Mar. biol. Ass. U.K., 40 : 5-16

On the nutrition and metabolism of zooplankton. 1. Preliminary observations on the feeding of the marine copepod, *Calanus helgolandicus* (Claus)

Measurements of quantity and type of food assimilated by adult females in summer months under laboratory conditions with circulatory natural sea water. Preferential selection of diet.

M

Southward, A. J. (1961)

61-03858

J. Mar. biol. Ass. U.K., 40 : 17-35

The distribution of some plankton animals in the English Channel and western approaches. 1. Samples taken with stramin nets in 1955 and 1957

Previous plankton work at Plymouth is reviewed briefly, and limitations of stramin ring trawl as a quantitative sampler discussed. Distribution of certain "indicator" spp. caught in haul of 2 and 1 m ring trawl described in comparison with regular 2 m hauls taken same years at two stations near Plymouth. Results support previous suggestions that "western" water at Plymouth is derived from a region to the south of Ireland. Apparent northward spread of warm-water copepod *Euchaeta hebes* during past 50 years may be connected with rise in sea temperature.

M

Holliday, F. G. T. & J. H. S. Blaxter (1961)

61-03859

J. Mar. biol. Ass. U.K., 40 : 37-48

The effects of salinity on herring after metamorphosis

Determinations of changes in weight and blood concentration—by measurement of the freezing-point—when transferred from one salinity to another. The importance of damage to the skin for survival is discussed in relation to tagging experiments. Results also discussed in relation to evolution of herring. Issued also as: *Mar. Repr. Mar. Lab., Aberdeen*, (148).

M

Bagenal, T. B. (1961)

61-03860

J. Mar. biol. Ass. U.K., 40 : 49-57

The long rough dabs of the Clyde Sea area

Biometry of Clyde population studied and compared with descriptions of the European race of *Hippoglossoides platessoides* given by Norman 1934. Scale counts, fin ray counts and vertebral counts. One sinistral dab has been found out of 2357. From British fishing statistics it is shown that this fish is of little, and declining, commercial importance. In Canada, however, the American subsp. is becoming more important commercially.

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 The larval stages of *Balanus balanus* (L.) Da Costa
- Six naupliar and a cyprid stage are described and diagrams given for general outlines and individual appendages. Sizes and setation formulae. Naupliar stages resemble both *B. balanoides* and *B. crenatus*; attention is drawn to some distinguishing features and a key for separation of sp. is provided.
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61-03862
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Brookhaven Symp. Biol., (11) : 343-7
 Nutritional factors in apochlorosis: comparative studies with algae and higher plants
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J. Mar. biol. Ass. U.K., 40 : 69-76
 Vitamin B₁₂ and marine ecology: the response of *Monochrysis lutheri*
- Ci 580935, 580934, 582275, 59-5454 and 61-03862. Culture experiments.
- MF
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J. Mar. biol. Ass. U.K., 40 : 77-80
 A pressurizing device for a camera case designed for use in shallow water
- Device described. Consists of single stage demand-valve working on same principle as aqualung and Sparklet bulb fitted to demand-valve by an adaptor and an on/off valve used as gas supply.
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- Brafield, A. E. & G. E. Newell** (1961)
J. Mar. biol. Ass. U.K., 40 : 81-7
 The behaviour of *Macoma balthica* (L.)
- This tellinid moves extensively about surface of sand, activities not being restricted to vertical movement as hitherto supposed. Migrations comprise a movement towards the sun followed by a movement away from it. If there is heavy cloud movements still occur, but are random. Other intertidal spp. indulge in similar movements.
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- Atkins, D.** (1961)
J. Mar. biol. Ass. U.K., 40 : 89-94
 The generic position of the brachiopod *Megerlia echinata* (Fischer & Oehlert)
- Variation in convexity of valves and development of pedicle opening described. Concluded that spp. should be transferred from *Pantellaria* back to *Megerlia*.

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Atkins, D. (1961)

J. Mar. biol. Ass. U.K., 40 : 95-111

The growth stages and adult structure of the lophophore of the brachiopods *Megerlia truncata* (L.) and *M. echinata* (Fischer & Oehlert)

Ci 592613, 596631 and 61-01003. *Megerlia truncata* and *M. echinata* dredged by R.V. 'Sarsia' have been examined living.

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Walne, P. R. (1961)

J. Mar. biol. Ass. U.K., 40 : 113-22

Observations on the mortality of *Ostrea edulis*

Account given of mortality at Tal-y-foel oysterage from 14 days to 11½ years after metamorphosis. Survival curve corresponds with Pearl's "positive skew rectangular type". Major predators are rare or absent, and cause of most of mortality is unknown.

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Boney, A. D. (1961)

J. Mar. biol. Ass. U.K., 40 : 123-6

A note on the intertidal lichen *Lichina pygmaea* Ag.

Failed to recolonize areas on S. Devon coast cleared from within the lichen "mats" after four years. Complex of factors governs size reached by a lichen tuft.

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Howie, D. I. D. (1961)

J. Mar. biol. Ass. U.K., 40 : 127-44

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J. Mar. biol. Ass. U.K., 40 : 145-55

Further observations on the fine structure of *Chrysochromulina ericina* Parke & Manton

New light-optical and electron microscope observations of culture material.

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Ci 59-6633. Brief account of sessile animals and algae found by diving. Numbers of a sponge *Polymastia*, a sabellid worm *Bispira* and bryozoan *Lepralia* were counted over a total area of 650 m².

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 Salinity tolerance and permeability to water of the starfish *Asterias rubens* L.
- Ci 580888. Experiments with N. Sea specimens of this asteroid which is the sp. of echinoderm penetrating furthest eastward in the Baltic. Difference of tolerance considered as evidence of physiological races.
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- Greenhalgh, R. & J. P. Riley (1961)**
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- Ci 582275, 580932, 61-03875, 1939 Willard, H. H. & G. M. Smith. Use of tetraphenylarsonium chloride for detection and determination of perchlorate investigated. Thirty surface and deep water samples from both northern and southern hemispheres examined for perchlorates, with negative results. Action of perchlorate on growth of seven unicellular algae has been examined.
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- Wallace, H. (1961)**
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- Ansell, A. D. (1961)**
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 Reproduction, growth and mortality of *Venus striatula* (Da Costa) in Kames Bay, Millport
- Seasonal changes in gonads of both sexes followed by macroscopic and microscopic examination. Veliger larva of *V. striatula* was cultured from eggs obtained from natural spawnings fertilized in the laboratory, and reared until settlement. Laboratory experiments to find effect of temperature on development and growth. Rate of growth of young *V. striatula* found from a series of field samples taken over period Oct. 1956 to Jan. 1959. Rate of mortality among the 1955 spatfall is described. In artificial populations, mortality was found to be independent of population density.
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- Petkovski, T. K. (1958)**
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- Description of 5 spp. of the genus *Ilyocypris*.

- F
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- Petkovski, T. K.** (1959)
Fragm. balc., 2 (14) : 107-23
 Fauna Copepoda péćine "Dona Duka" kod Rašca-Skopje (The copepod fauna of the Dona Duka cave near Rašel-Skopje)
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Barrow, J. H., Jr. (1960)*J. Protozool.*, 7 (3) : 217-21

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BA 35A (21) 61207.

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Berger, J. (1960)*J. Protozool.*, 7 (Suppl.) : 17-8

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 WFA 10 (6) : 41.

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J. Nutr., 67 : 423-32
The effect of concentrates of polyunsaturated acids from tuna oil upon essential fatty acid deficiency
WFA 10 (6) : 41.
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61-03959

Hansen, P. V., F. L. Kauffman & L. H. Wiedermann (1959)
J. Amer. Oil Chem. Soc., 36 (5) : 193-5
Direct spectrophotometric determination of butylated hydroxyanisole in lard and in hardened lard
WFA 10 (6) 45.
- X
61-03960

Proctor, B. E. et al. (1959)
Food Tech., Champaign, 13 (4) : 224-7
Rapid determination of the quality of whole eviscerated haddock
WFA 10 (6) : 45.
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61-03961

Castell, C. H. (1959)
Canad. Fisherm., 46 (1) : 14-5
A simple method of checking on the sources of contamination in fish plants
WFA 10 (6) : 45.
- M
61-03962

Thompson, M. H. (1959)
Comm. Fish. Rev., 21 (2) : 17-8, Suppl.
Proximate composition of Gulf of Mexico industrial fish
WFA 10 (6) : 47.
- M
61-03963

Sandvaer, G. (1959)
Aarsberetn. Norg. Fisk., (6) : 88 p.
Lofotfisket 1959 (Lofoten fishery 1959)
Review of the fishery, with statistics.
- MF
61-03964

Eriksson, E. (1959)
Tellus, 2 (4) : 375-403
The yearly circulation of chloride and sulfur in nature; meteorological, geochemical and pedological implications. Part 1
Comprehensive review of the problem with emphasis on meteorological aspects of the circulation of sea salt components.

MF
61-03965**Lisitzin, E. (1959)***Tellus*, 2 (4) : 459-66

Unimodal seiches in the oscillation system Baltic proper—Gulf of Finland

Determination of the period of oscillation from the marcograph records and discussion of the possible occurrence of transverse oscillations in the Gulf of Finland and in the Baltic proper.

MF
61-03966**IPFC (1958)***Proc. Indo-Pacif. Fish. Coun.*, 8, sect. 1 : 189 p.

Report of the 1st Session and certain of the working papers submitted, especially the report of the Executive Committee, a review of the Council's work up to the commencement of the session, and reports of the two technical committees.

M
61-03967**Anon. (1960)***G. Pesca*, 10 (9) : 3

Rilancio degli studi oceanografici in Francia (Continuation of oceanographic studies in France)

Short account of proposals for increased expenditure in next five years, incl. creation of a research institute, construction of ten research vessels, development of fisheries research institutions.

M
61-03968**Bumpus, D. F. (1960)**

Woods Hole Oceanographic Institution, (60-18) : 6 p.

Investigation of climate and oceanographic factors influencing the environment of fish

Reports drift bottle studies and gives surface and bottom current charts for N.E. US. No references to fishes.

MF
61-03969**Tibbs, J. (1960)***Proc. biochem. Soc., London*, 392 Meeting, p. 8p-9p

Acetylcholinesterase in micro-organisms possessing simple flagella or cilia

Incl. data on biochemistry of spermatozoa of *Salmo trutta* and *Perca fluviatilis*, and reference to gills of *Mytilus edulis*.

M
61-03970**Naaktgeboren, C., E. J. Slijper & W. L. van Utrecht (1960)***Norsk Hvalfangsttid.*, 49.(3) : 113-9

Researches on the period of conception, duration of gestation and growth of the foetus in the fin whale, based on data from international whaling statistics.
En No

A study based on monthly length-distribution curves of foetal *Balaenoptera physalus* from the southern hemisphere.

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- Chittleborough, R. G.** (1960) 61-03971
Norsk Hvalfangsttid., 49 (3) : 120-4
 Apparent variations in the mean length of female humpback whales at puberty. *En No*
 Length analysis of 313 specimens examined at Australian whaling stations.
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- Anon.** (1960) 61-03972
Norsk Hvalfangsttid., 49 (3) : 127-9
 Catch reports. Pelagic catch in the season 1959/60. *En No*
 Catches of Norwegian, Japanese and British expeditions.
- M
- Anon.** (1960) 61-03973
Norsk Hvalfangsttid., 49 (3) : 130
 Catch reports from South Georgia. *En No*
 Catch reports from three land stations of 1957/58, 1958/59 and 1959/60 seasons.
- M
- Anon.** (1960) 61-03974
Norsk Hvalfangsttid., 49 (3) : 134-8
 Catch reports. The summer season 1959
 Catch reports from whaling companies operating on fields outside Antarctic.
- M
- Magne-Simon, M.-F.** (1960) 61-03975
C.R. Acad. Sci., Paris, 251 (25) : 3040-2
 Note sur le processus de l'auxosporulation chez une diatomée marine, *Grammatophora marina* (Lyngb.) Kütz. (Note on a process of auxosporulation in a marine diatom, *Grammatophora marina* (Lyngb.) Kütz.)
- F
- Kobayashi, J.** (1959)* 61-03976
Ber. Ohara Inst., 11 (2) : 167-233
 Chemical investigation on river waters of southeastern Asiatic countries, Rpt. 1, The quality of waters of Thailand
- M
- Chew, F., S. J. Bein & J. H. G. Stimson** (n.d. 1959?) 61-03977
 Miami Univ., Mar. Lab., (59-1) : 109 p.
 A data report of Florida Gulf coast cruises, submitted June 1959 to the Office of Naval Research, Contract Nonr 840 (01)
 Contains hydrographic and chemical data during two-year period beginning Jul. 1955.

M

California. Department of Fish & Game (1960)

61-03978

Fish Bull., Sacramento, (108) : 72 p.

The marine fish catch of California for the years 1957 and 1958

Common and scientific names, total annual landings since 1916; number of vessels and fishermen; monthly landings by spp., port, area; values and shipments.

MF

National Canners Association (1960)

61-03979

Fish. Inf. Bull., Aug. 26 : 161-5

Incl. statistics for fisheries products imported to and exported from US during 1954 to 1960. Gives country of origin and destination.

M

Anon. (1960)

61-03980

Fish. Inf. Bull., Sept. 16 : 178

Foreign fishery developments. Panama's shrimp industry studied by FAO expert

Incl. note on FAO fishery expert's recommendations to Panamanian Govt to counteract a decline in its shrimp fishery.

MF

National Canners Association (1960)

61-03981

Fish. Inf. Bull., Sept. 16 : 175-8

Incl. 61-03980.

M

Tommasi, L. R. (1958)

61-03982

Contr. Inst. oceanogr. S. Paulo (Oceanogr. biol.), (2) : 28 p.

Os equinodermas do litoral de São Paulo. 2. Diadematidae, Schizasteridae, Brissidae, Cidaroidae (Echinoidea) e Asteroidea do bentos costeiro (The echinoderms of the coast of São Paulo. 2. Diadematidae, Schizasteridae, Brissidae, Cidaroidae (Echinoidea) and Asteroidea of the coastal benthos)

A second contribution made to bring up-to-date the list of echinoderms from the coast of São Paulo, a further record is given of the echinoids found on that region, enumerating the spp. known of the families Diadematidae, Schizasteridae, Brissidae, and Cidaridae, and of the asteroids from the same region.

M

Heimann, R. F. G. & D. J. Miller (1960)

61-03983

Calif. Fish Game, 46 (1) : 35-58

The Morro Bay otter trawl and party boat fisheries—August, 1957 to September, 1958

Describes a Californian study to determine: with respect to trawling, spp. of fish taken, their lengths and weights and poundage saved for marketing and that discarded; with respect to party boats the number and spp. of fish caught.

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61-03984
- Herald, E. S. et al.** (1960)
Calif. Fish Game, 46 (1) : 59-67
 Catch records for seventeen shark derbies held at Elkhorn Slough, Monterey Bay, California
- Presents data on 2,273 elasmobranchs caught 1951-59: spp., numbers, weights, sex ratios, food habits, etc.
- M
61-03985
- Blunt, C. E., Jr.** (1960)
Calif. Fish Game, 46 (1) : 69-80
 Observations on the food habits of longline caught bigeye and yellowfin tuna from the tropical eastern Pacific 1955-1956
- Describes stomach contents from 40 *Parathunnus sibi* taken near the equator from Ecuador to 500 miles west of the Galapagos Islands and 18 *Neothunnus macropterus* from vicinity of Costa Rica and Clipperton Island.
- F
61-03986
- Hunt, E. G. & A. I. Bischoff** (1960)
Calif. Fish Game, 46 (1) : 91-106
 Inimical effects on wildlife of periodic DDD applications to Clear Lake
- Presents results of chemical analyses of animal tissue from birds, fish and frogs from a large lake in California treated with DDD (dichloro diphenyl dichloroethane) to eradicate gnats, *Chaoborus astictopus*.
- M
61-03987
- Chatwin, B. M. & C. J. Orange** (1960)
Calif. Fish. Game, 46 (1) : 107-9
 Recovery of tagged bluefin tuna (*Thunnus saliens*)
- Gives release and recovery data—dates, location, time free days, distance traveled and length on recovery—for eight recoveries out of 120 tagged near Guadalupe Is. off Baja California.
- F
61-03988
- Slanina, K.** (1958)
Sonderdr. Bundesanst. Wasserbiol., (46) : 23 p.
 Die Verarmung von Fließgewässer-biocoenosen durch Flotationsabgänge
 (The impoverishment of running water biocoenoses caused by waste water from ore flotation)
- M
61-03989
- Kawasaki, S.** (1959)
 Tokyo, Japan Fisheries Agency, 7 p.
 (Progress report king crab investigations in the eastern Bering Sea, 1959).
Ni
- Issued also as: INPFC Doc., (322 (2)). Charts, experimental fishing results for *Paralithodes*; seasons and catches, abundance.

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61-03990

Kawasaki, S. (1959)

INPFC Doc., (322 (1)), 8 p.

Report on the research by Japan on the king crab in the eastern Bering Sea

En 61-03989.

F

61-03991

Liepolt, R. & E. Weber (1958)

Sonderdr. Bundesanst. Wasserbiol., (57) : 20 p.

Die Giftwirkung von Kupfersulfat auf Wasserorganismen (The poisonous effect of copper sulfate on water organisms)

Laboratory tests with few fresh water fish and bottom fauna in different concentrations of copper sulfate and at different pH, temperature and hardness.

M

61-03992

Dannevig, A. (1959)

Fiskeridir. Skr. Fiskeri, 4 (3) : 32 p.

Vekslinger i forekomsten av forskjellige Fiskeslag på Skagerakkysten (Fluctuations in the abundance of some fishes on the Norwegian Skagerack coast)

Survey of the hydrography of the area and description of the variations in season and locality of the occurrence of different spp. of fish during last 100 years and its relation to climatic variation.

F

61-03993

Sprague, J. W. (n.d. 1959?)

Dingell-Johnson Project F-1-R-8, Job No. 1, 2, 3, 4 & 5, 29 p.

Report of fisheries investigations during the sixth year of impoundment of Fort Randall Reservoir, South Dakota, 1958

Describes creel census in the tailwaters; determination of *Polyodon spathula* harvest in the tailwaters; small mesh seining to determine reproductive success; plankton and bottom fauna studies; partial life history study of the paddlefish; and chemical and thermal determinations. The studies were carried out as part of the Federal Aid in Fish and Wildlife Restoration Act.

F

61-03994

Sprague, J. W. (1959)

Dingell-Johnson Project F-1-R-8, Job No. 2, 4 & 5, 42 p.

Report of fisheries investigations during the fourth year of impoundment of Gavins Point Reservoir, South Dakota, 1958

Subjects incl. a brief description of the reservoir, physical and chemical findings, spp. composition, reproduction, age and rate of growth, length-weight relationships, age at maturity, stocking and preliminary investigations of food abundance.

MF

61-03995

WMO. Commission for Climatology, Third Session, London, 1960
(1960)

CCI-III/A/WP.3, 4 p., mimeo

Définition de la climatologie (Definition of climatology)

Do 60-266inc.

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- WMO. Commission for Climatology, Third Session, London, 1960** 61-03996
(1960)
Item 9, CCI-III/Doc. 18, mimeo, 2 p.
Modern techniques for data processing, publication and storage. Recommendation for cooperative international punch-card processing
Do 60-266me. Submitted by US.
- M
- WMO. Commission for Climatology, Third Session, London, 1960** 61-03997
(1960)
Item 20, CCI-III/Doc. 32, mimeo, 4 p.
Collaboration with UNESCO and FAO and related questions. Collaboration between WMO and FAO in the preparation of synopses of oceanographic data
Do 60-266me. Submitted by FAO.
- M
- WMO. Commission for Climatology, Third Session, London, 1960** 61-03998
(1960)
Item 20, CCI-III/Doc. 55, mimeo, 1 p.
Collaboration with U.N.E.S.C.O. and F.A.O. and related questions
Do 60-266me. Submitted by the Secretary-General.
- MF
- WMO. Commission for Climatology, Third Session, London, 1960** 61-03999
(1960)
Item 13, CCI-III/Doc. 56, mimeo, 10 p.
Guide to climatological practices
Do 60-266me. Submitted by the President of CCI.
- F
- WMO. Commission for Climatology, Third Session, London, 1960** 61-04000
(1960)
Item 15, CCI-III/Doc. 58, mimeo, 6 p.
Climatic atlases. Report on maps of agricultural interest which should be included in climatological atlases
Do 60-266me. Submitted by the Chairman of the CAgM Working Group, agroclimatic classifications and representations.
- MP
- WMO. Commission for Climatology, Third Session, London, 1960** 61-04001
(1960)
Item 13, CCI-III/Doc. 59, mimeo, 13 p.
Guide to climatological practices
Do 60-266me. Submitted by the President of CCI.

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- WMO.** Commission for Climatology, Third Session, London, 1960 M
61-04002
(1960)
Item 13, CCI-III/Doc. 60, mimeo, 8 p.
Guide to climatological practices

Do 60-266me. Submitted by the President of CCI.

- Kobayashi, T.** (1959) MF
61-04003
Tokyo, Japan Fisheries Agency, 25 p.
(Age composition of chum stocks in the North Pacific). *Ni*

- Kobayashi, T.** (1959) MF
61-04004
INPFC Doc. Ser. No. 335, 7 p.
On the chum salmon stocks

En 16-04003. Report on chum salmon stock study made in 1957 on the basis of the age composition, number of circuli of scales and calculated body length of four-year fish of chum salmon in the North Pacific.

CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-271me to 61-311me

**American Society of Zoologists, Division of Comparative
Endocrinology and Comparative Physiology.** 28/12/61 G
61-271me
Denver, Colo., U.S.A. 2 days
Symposium on neurosecretion

Institute of Mathematical Statistics. 14/6/61 G
61-272me
Seattle, Wash., U.S.A. 4 days
24th Annual meeting

SPC. Jul./62 M
61-273me
Utulei, Nr Pago Pago, American Samoa. 10 days
5th Conference.

Central Treaty Organization, Scientific Council. 8/1/62 G
61-274me
Lahore. 6 days
Symposium on the role of science in the development of natural resources
with particular reference to Iran, Pakistan and Turkey

WMO. 29/1/62 MF
61-275me
New Delhi. 19 days
3rd Session of the Commission on Instruments and Methods of Observation

**Arbeidsutvalget for Utvikling av Pelagisk
Enbatstral, Bergen.** 8/2/62 M
61-276me
Trondheim, Norway. 2 days
International Group for Pelagic Fishing Methods and Gear (I.F.)

**Northwest Pacific Fisheries Commission
(Japan-USSR).** Feb./62 M
61-277me
Moscow, USSR. 1 day
6th Annual meeting

Conference will discuss adoption of regulations and set a salmon catch quota
for Japan.

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NATO. 26/3/62
 Liverpool, U.K. 5 days
 Lectures on tides and storm surges

GM
 61-278me

The lectures to be delivered will incl.: gravity waves-theory and hypothesis; the nature of the problem in oceans and seas; the nature of the problem in coastal waters and estuaries; the analytical problem—recent developments in the analytical treatment of the two-dimensional problem; the analogue approach—the mathematical formulation of tidal problems in analogue computation; the numerical approach—a review of computing theory—review of computing practice—review of operators; alternative approaches—the method of characteristics—characteristics and computers.

American Society of Zoologists, Division of Comparative Endocrinology. 28/4/62
 South Hadley, Mass., U.S.A. 2 days
 Northeast conference

G
 61-279me

American Society of Zoologists, Division of Comparative Endocrinology. 1st week/5/62
 Kalamazoo, Mich., U.S.A.
 North-central conference

G
 61-280me

American Society of Zoologists, Division of Comparative Endocrinology. 1st week/5/62
 New Orleans, Louisiana, U.S.A.
 Southeast conference

G
 61-281me

I-ATTC. 16/5/62
 Quito, Ecuador. 3 days
 Meeting

M
 61-282me

ISO/TC 38, Sub-Committee on Fishing Nets. 22/5/62
 Hamburg, Germany. 2 days
 1st Meeting

MF
 61-283me

Will deal with standardization of definitions and basic terms in connection with netting twines, webbing, size of mesh; methods of testing nets and net materials.

MEETINGS

Challenger Society/Representatives from Marine Laboratories. 23/5/62
 Millport, Isle of Cumbrae, Scotland. 2 days
 Meeting

M
 61-284me

Following papers will be read, by: R. H. Millar, Investigations on the Loch Ryan oyster beds; C. M. Yonge, Observations on the biology of the mesogastropod *Trichotropis cancellata*; C. H. Mortimer, Internal waves in large basins; S. M. Marshall and A. P. Orr, Carbohydrate and organic matter as a measure of phytoplankton in the sea in spring; M. R. Droop, On cultivating *Skeletonema costatum*; C. Edwards, Observations on the distribution of *Veella* in the Atlantic and the Mediterranean; V. Bainbridge, Distribution of plankton and pelagic fishes off the coast of tropical West Africa; T. H. J. Gilmour, Defensive adaptations in the bivalve *Lima hians*; T. B. Bagenal, A review of flat fish fecundity; H. T. Powell, The distribution and ecology of some common intertidal plants and animals in northern Norway; J. R. Lewis and H. T. Powell, Further observations on the distribution of *Chthamalus stellatus* and *Balanus balanoides* in Argyll, Scotland; J. Mauchline, Levels of radioactive elements in the sea off western Britain; P. R. O. Barnett, Life cycles of the two species of *Platyhelipus* (Harpacticoida).

International Fisheries Show. 25/5/62
 Lorient, France. 10 days
 1st Bi-annual show

MF
 61-285me

American Society of Zoologists, Division of Comparative Endocrinology. Last week/5/62
 Columbia, Missouri, U.S.A.
 South and mid-central conference

G
 61-286me

IAEA. 18/6/62
 Vienna, Austria. 5 days
 Meeting of the Panel on radioactive waste disposal for users of radioisotopes

MF
 61-287me

Wildlife Disease Association, U.S. 24/6/62
 High View, N.Y., U.S.A. 4 days
 International conference on wildlife disease

G
 61-288me

ASAB. 11/7/62
 Oxford, U.K. 3 days
 Symposium on reproductive and parental behaviour

MF
 61-289me

Incl. papers by: D. J. Crisp, Release of larvae by barnacles in response to the available food supply; E. Fabricius, Comparative studies on the spawning behaviour of *Salmonidae*; R. Riley, Some aspects of reproductive isolation in four sympatric species of poeciliid fishes.

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- FAO.** 21/7/62 M
61-290me
Dublin, U.K. 8 days
Fishing boat forum
- FAO/ECLA.** 23/7/62 MF
61-291me
Rio de Janeiro. 12 days
Regional conference for Latin America
- West Pacific Fisheries Commission.** Aug.-Sept./62 MF
61-292me
Moscow.
7th Meeting
- SCAR/ICSU.** 3/9/62 M
61-293me
Paris. 5 days
Symposium on antarctic biology
- Papers may be read on biogeography and systematics, marine productivity, ecology, ethology, physiology (animal and plant), and conservation.
- Intergovernmental Oceanographic Commission.** 19/9/62 M
61-294me
Paris. 10 days
2nd Meeting
- Conference of European Comparative Endocrinologists.** 20/9/62 G
61-295me
London, U.K. 3 days
Conference
- Scientific proceedings will consist of presentation and discussion of offered papers dealing with current research, and will be published in abstract form in *General and Comparative Endocrinology*.
- Arbeidsutvalget for Utvikling av Pelagisk Enbatstral, Bergen.** Sept./62 M
61-296me
Netherlands.
International Group for Pelagic Fishing Methods and Gear (I.F.) (tentative meeting)
- FAO/ICES/ICNAF.** Sept./62 MF
61-297me
Copenhagen.
Joint working party on fisheries statistics
- IAEA.** 1/10/62 M
61-298me
Vienna, Austria. 6 days
Meeting of the Panel on the legal implications of disposal of radioactive waste into the sea

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| <p>Pacific Tuna Conference. 2/10/62
Lake Wilderness, Nr Seattle, Wash., U.S.A. 2 days
13th Meeting</p> | <p>M
61-299me</p> |
| <p>Eastern Pacific Oceanic Conference. 3/10/62
Lake Wilderness, Nr Seattle, Wash., U.S.A. 3 days</p> | <p>M
61-300me</p> |
| <p>FAO. 15/10/62
Rome, Italy. 12 days
39th Session of the Council</p> | <p>G
61-301me</p> |
| <p>Pacific Marine Fisheries Commission. 17/10/62
Seattle, Wash., U.S.A. 3 days</p> | <p>M
61-302me</p> |
| <p>Office International des Epizooties (O.I.E.), Commission permanente de l'O.I.E. pour l'étude des maladies des poissons. 20/10/62
Torino, Italy. 5 days
Symposium européen sur les maladies des poissons et l'inspection des produits de la pêche fluviale et maritime (European Symposium on the diseases of fishes and the inspection of products of riverine and marine fisheries)

Organized by Italian Ministry of Public Health and Turin Zooprophylactic Institute. Agenda covers diseases of fishes caused by bacteria, fungi, parasites, protozoans, recognized in each country; their sanitary and economic importance and methods of combating them which are applied or envisaged. Organization in each country of fisheries product inspection services; training of inspectors. Organization of research on fish diseases and their treatment.</p> | <p>MF
61-303me</p> |
| <p>American Meteorological Society. 22/10/62
Ashville, N.C. 4 days
2nd Conference on climatology</p> | <p>G
61-304me</p> |
| <p>CIESMM. 22/10/62
Monaco. 7 days
Meeting</p> | <p>M
61-305me</p> |
| <p>INPFC. 29/10/62
Seattle, Wash., U.S.A. 13 days
Committee sessions prior to 9th annual meeting of INPFC</p> | <p>M
61-306me</p> |
| <p>FAO. Oct.-Nov./62
Latin America.
Regional seminar on rural cooperation for Latin America, in collaboration with FAO</p> | <p>MF
61-307me</p> |

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| FAO. 1/11/62
Tunis. 10 days
2nd FAO regional conference for Africa | G
61-308me |
| NPFSC. 21/11/62
Washington, D.C., U.S.A. 3 days
Meeting of the Scientific Committee | M
61-309me |
| NPFSC. 26/11/62
Washington, D.C., U.S.A. 1 day
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61-310me |
| ASAB. 12/12/62
London, U.K. 1 or 2 days
Symposium on "Gregarious behaviour" | G
61-311me |

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| FAO. Oct./62
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Symposium on the development of mechanized fishing fleets in the IPFC region | MF
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Regional seminar on fishery development planning and administration | MF
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| SPC. Oct./62
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6th Session of the Maritime Safety Committee

UNESCO, Science Cooperation Office for Southeast Asia. Nov./62

M
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Thailand? 5 weeks?

Regional course in marine sciences

Program includes taxonomic aspects of work in zooplankton, benthic invertebrates and fish.

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G
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Vienna, Austria. 8 days

Symposium on the detection and use of tritium in the physical and biological sciences

Amendment to 60-315me.

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(Life-cycles of tapeworms from Lakes Goldapiwo and Mamry Polnocne). Pl

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Tylodelphys podicipina n. sp. (Trematoda Strigeidae) and its life-cycle. Pl

BA 35E (20) 57271. Described from a grebe *Podiceps cristatus*. Invasion of vitreous humor and fluid of eye of intermediate fish hosts was a habit similar to that of *T. scheuringi* in the US—invasion of *Perca fluviatilis* and *Lota lota* by the Polish sp. and invasion of *P. flavescens* and *L. maculosa* by the American sp.

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BA 35E (20) 57307. Genus—family Cymothoidae—comprises 6 spp., all parasites of freshwater fishes.

M

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Atti Accad. Ligure, 15 (1) : 311-25Considerazioni biologiche su un cladocero marino: *Penilia avirostris* Dana (Biological considerations on a marine cladoceran: *Penilia avirostris* Dana)BA 35E (20) 57308. Describes features of world distribution, density/m³. In Gulf of Naples distribution is correlated with the transparency of the water, and this factor is added to the ecological ones already known. Temperature requirements—calculated as degrees/day—to reach the highest densities.

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61-04958

Dusenja, 8 (2) : 79-88*Pseudosphaeroma jakobii* n. sp. (Isopoda—Crustacea), encontrado na Baía de Guarantuba (Paraná—Brasil) (*Pseudosphaeroma jakobii* n. sp., Isopoda, Crustacea, found in the Bay of Guaratuba, Paraná, Brazil)

BA 35E (20) 57309.

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K. fysiogr. Sällsk. Lund, Förh., 29 : 21-5*Mysis polaris*—a new species of the genus *Mysis*

BA 35E (20) 57313. Based on a specimen collected in 1880 on the second cruise of the US Revenue Cutter 'Corwin', the locality being only Arctic Ocean. A second specimen has been identified from the Kara Sea.

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Ann. Univ. M. Curiae-Sklodowska, 12C (6) : 57-101

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BA 35E (20) 57316. Spp. found by the author represent 38.4% of all Copepoda found in all Polish lakes to date.

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BA 35E (20) 57327. Distribution of 12 freshwater amphipods for these territories and their east African, Australian and Asian affinities.
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(Anatomy and histology of the genital structure of *C. mediterraneus* Brug.)
BA 35E (20) 57485.

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Böhlke, J. E. (1960)*Notul. nat. Acad. Philad.*, 329 : 1-8A new ophichthid eel of the genus *Pseudomyrophis* from the Gulf of MexicoBA 35E (20) 57496. *P. nimius*, from east of the delta of the Mississippi River.

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Comments on serranoid fishes with disjunct lateral lines, with the description of a new one from the Bahamas

BA 35E (20) 57497. Key to the seven families recognized, followed by a synopsis in which all generic names are listed without regard to synonyms. *LIPOGRAMMA anabantoides* (Grammidae, Stigmatonotidae) is described.

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61-04970

de Carvalho, A. L. (1959)*Bol. Mus. nac. Rio de J.*, 201 : 1-10

Novo gênero e nova espécie de peixe anual de Brasília, com uma nota sobre os peixes anuais da Baixada Fluminense, Brasil (Pisces—Cyprinodontidae—Fundulinae) (A new genus and new species of annual fish of Brazil, with a note on the annual fishes of the Baixada Fluminense)

BA 35E (20) 57500. *SIMPSONICHTHYS boitonei*, subfamily Fundalinae, tribe Rivulini, is described from the central high flat land of the state of Goyaz, Brazil, in temporary pool in the area reserved for the zoo of Brasília. Synonymy *Cynolebias whitei* Myers (= *Pterolebias elegans* W. Ladiges) is established.

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61-04971

Jubb, R. A. (1960)*Ann. S. Afr. Mus.*, 45 (2) : 260

Note on locality records of freshwater fishes presented by F. D. McKean to the South African Museum

BA 35E (20) 57503. Data on specimens of 7 spp. labelled as from Rhodesia, but which probably were actually collected in the Zambesi above the Victoria Falls.

F

61-04972

de Miranda Ribeiro, P. (1959)*Bol. Mus. nac. Rio de J.*, 206 : 1-9

Considerações sobre Callichthyidae Gill, 1872 (Nematognatha) (Considerations on Callichthyidae)

BA 35E (20) 57508. Material in this family in collection of Museu Nacional, Rio de Janeiro, studied. Taxonomic history is reviewed.

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Rec. Dominion Mus., 3 (3) : 241-6
 A new genus and species of congiopodid fish from southern New Zealand
 BA 35E (20) 57509. *ALERTICHTHYS*, Congiopodidae, with type and only known representative *A. blacki*, collected east of Otago Peninsula, New Zealand.
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 Serological criteria of species
 BA 35E (20) 57511. Examples of use of serological methods for distinguishing spp. of fish are given. Photorefectometer studies. Ouchterlony technique by cellulose acetate immuno-diffusion technique of Consden & Kohn. *Sebastes marinus* and *S. mentella* could be distinguished.
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 BA 35E (20) 57512. Descriptions of upper and lower jaw bones and teeth.
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61-04976
Publ. avuls. Mus. nac. Rio de J., 27 : 1-16
 Catálogo dos peixes do Museu Nacional—3. Callichthyidae Gill, 1872 (Catalogue of the fishes of the Museum Nacional—3. Callichthyidae Gill, 1872)
 BA 35E (20) 57514.
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 Morpho-biological and morphometric characteristics of pink salmon of the Amguna and Iska rivers
 En 59-2541UL. Available from Program for Scientific Translations* Jerusalem.
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 The state of stocks and means for increasing the numerical counts of Amur pink salmon
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61-04980
Ryb. Khoz. 34 (5) : 8-13

Raiony promyslovykh skoplenii i lov sairy v Tikhom okeane (Saury concentration areas and fisheries in the Pacific Ocean)

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61-04981
PST Cat. No. 9

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PST Cat. No. 9

Contributions to the study of Pacific Ocean Moridae (Pisces, Gadiformes)

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PST Cat. No. 9

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PST Cat. No. 1

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BAgr., 24 (7) 54805.

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61-05502
- Rossiter, J. R.** (1959)
Dtsch. hydrogr. Z., 12 (3) : 117-27
 A method for extracting storm surges from tidal records. Fr De
- A method is described for extracting storm surge heights from hourly tabulations of tidal heights, which dispense with the use of a tide predicting machine.
- MF
61-05503
- de Angelis, R.** (1960)
Stud. Rev. gen. Fish. Coun. Medit. (Fr), (12) : 46 p.
 Exploitation et description des lagunes saumâtres de la Méditerranée (Mediterranean brackish water lagoons and their exploitation)
- Fr 61-04453.
- M
61-05504
- Schärfe, M. J.** (1960)
Stud. Rev. gen. Fish. Coun. Medit. (Fr), (13) : 42 p.
 Contrôle d'un chalut operant entre deux eaux ou sur le fond et tiré par un seul bateau (A new method for "aimed" one-boat trawling in midwater and on the bottom)
- Fr 61-04309.

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- M
61-05505
- Poulsen, E. M.** (1959)
ICNAF Ser. No. (693) : 14 p.
 1958/59 supplement to—Guide to ICNAF papers

This paper supplements serial nos. 583, 505, 421, 336 and 232, and covers the period 1 Oct. 1958 to 30 Sep. 1959. Part A is a direct continuation of the 1957–58 supplement, listing the papers by title and author. Part B is an index arranged according to subjects, for all papers published or otherwise circulated by the Commission from Apr. 1951 to Oct. 1959. Part C is an author index with reference to serial numbers.

- M
61-05506
- WMO. Commission on Maritime Meteorology. Working Group**
on the Relations with the International Fisheries Organizations (n.d. 1959)
 [Geneva-Tokyo], mimeo, 15 p.
 Report of the Working Group . . .

Basic background from the viewpoint of meteorology; present status of weather observations at sea; present status of maritime weather forecast for fishing vessels and its benefit for them; reasons of difficulties to get weather observations from fishing vessels; ways and methods to overcome these difficulties; steps to enable fishing vessels to take wireless weather reports; utilization of meteorological and oceanographical data for fishery; promotion of geophysical sciences; intercollaboration between meteorological, oceanographic and fishery sciences.

- M
61-05507
- Anon.** (n.d. 1959)
 [Geneva-Tokyo], mimeo, Annex 1
 Comments of various international organizations concerned with fisheries

- 61-05508
- Spinnangr, F.** (n.d. 1959)
 [Geneva-Tokyo], mimeo, Annex 2
 Brief outlook over the Norwegian weather service for the fishermen

- 61-05509
- Terada, K.** (n.d. 1959)
 [Geneva-Tokyo], mimeo, Annex 3
 Utilization of sea surface temperature data for fisheries and the special forecast for fishing operations in Japan.

- M
61-05510
- Eggvin, J.** (n.d. 1959)
 [Geneva-Tokyo], mimeo, Annex 4
 Can the oceanographers' work for the fishermen and the fishing industry be intensified by telegraphic distribution of oceanographic observations

- M
61-05511
- Hahn, J.** (1960)
Maine Cst Fisherm., 14 (8) : 21–3
 Roaming the seven seas, Woods Hole vessels are adding to our knowledge

Photographs and notes on vessels operated by Woods Hole Oceanographic Institution.

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MF

61-05512

Anon. (1960)

Maine Cst Fisherm., 14 (8) : 25

Device helps collate research data

Note on the Aquatic Sciences Information Retrieval Centre directed by S. B. Salla at Rhode Island.

G

61-05513

Grebe, R. M. (Ed.) (1959)

Philadelphia, W. B. Saunders Co., 120 p.

Handbook of toxicology—Vol. 4. Tranquilizers

Typically one or more paragraphs are incl. under each of the following headings: formula; structure; physical and chemical properties; pharmacology; clinical; toxicity; mode and site of action; and references. An index incl. the alternative names of the compounds.

G

61-05514

Dittmer, D. S. (Ed.) (1959)

Philadelphia, W. B. Saunders Co., 242 p.

Handbook of toxicology—Vol. 5. Fungicides

Material is arranged according to the following categories; other names; molecular and structural formulae; physical and chemical properties; tests; toxicity; source; use; comparative toxicology; phytotoxicity; and cautions. Also incl. are an index with alternative names, a bibliography and a list of patent numbers.

MF

61-05515

Dybovskaia, I. K. & I. V. Kirillova (1958)*

Moskva, Gosud. Izd. Fiz.-Mat. Literatury, 406 p.

Frantsuzsko-russkii, geologicheskii slovar (French-Russian geological dictionary)

MF

61-05516

Romania. Ministerul Industriei Bunurilor de Consum.

Departamentul Industriei Alimentare (1959)

Bul. Inst. Cerc. piscic., 18 (4) : 5-96

Co 61-00760. Also gives notes on congresses, etc., information about fishculture at home and abroad, book reviews.

MF

61-05517

Leonte, V. (1959)

Bul. Inst. Cerc. piscic., 18 (4) : 9-18

Contribuții la cunoașterea răspîndirii, hrenei și ritmului de creștere a puietului de sturioni marini în Dunăre (Contributions to knowledge of the distribution, nutrition and growth of marine sturgeon fry in the Danube).

Fr Ru

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- F
61-05518
- Bauer, O. N., I. F. Demcenko & V. M. Ivasik (1959)**
Bul. Inst. Cerc. piscic., 18 (4) : 19-22
 Combaterea hidropiziei crapului în gospodăriile de elesteu cyprinicole cu ajutorul unor antibiotice (Treatment by antibiotics of hydropsy of carp in carp culture farms). Fr Ru
- F
61-05519
- Janeček, V. & V. Janeček, Jr. (1959)**
Bul. Inst. Cerc. piscic., 18 (4) : 23-6
 Un nou tip de mașină de tăiat vegetația acvatică (A new type of equipment for clearing aquatic vegetation). Fr Ru
- M
61-05520
- Pogîrneată, N. (1959)**
Bul. Inst. Cerc. piscic., 18 (4) : 27-39
 Cîteva observații privind pescuitul și biologia calcanului (*Scophthalmus maeoticus* (Pallas)) la litoralul românesc al mării Negre (Some observations on the fishery for and biology of turbot, *Scophthalmus maeoticus* (Pallas) of the Romanian Black Sea coast). Fr Ru
- MF
61-05521
- Bazavan, I. et al. (1959)**
Bul. Inst. Cerc. piscic., 18 (4) 40-6
 Procedee de colorare a uneltelor de pescuit confecționate din fire poliamidice (nylon, kapron, relon) (Methods of coloring fishing gears made of polyamide fibres—nylon, kapron, relon). Fr Ru
- MF
61-05522
- Cain, I., I. Tertîșcu & M. Mihai (1959)**
Bul. Inst. Cerc. piscic., 18 (4) : 47-54
 Pescuitul în zonele de vegetație cu ajutorul mijloacelor mecanice (Fisheries in areas invaded by vegetation, with mechanical aids). Fr Ru
- MF
61-05523
- Mirică, Gh. & A. Dănilă (1959)**
Bul. Inst. Cerc. piscic., 18 (4) : 55-68
 Considerații asupra mijloacelor de ameliorare piscicolă în cadrul amenajărilor stuficole de tip I din delta Dunării cu aplicații la M.U.S. Rusca (Consideration of the means of fisheries improvement in management of type I phragmitetum zones of the Danube Delta, application to the Rusca Unit). Fr Ru

- F
61-05524
- Băleanu, N. & A. Cristea** (1959)
Bul. Inst. Cerc. piscic., 18 (4) : 69-79
 Considerații privind hidrologia complexului Crapina-Jijila-Piatra Călcăță
 (Consideration of the hydrology of the Crapina-Jijila-Piatra-Calcată complex).
 Fr Ru

Observations 1955-58 of this Danube region.

- F
61-05525
- Cooper, E. L.** (1959)
Bull. agric Exp. Sta. University Park, Pa., (663) : 21 p.
 Trout stocking as an aid to fish management

Reviews trout stocking as an aid to fish management and presents bibliography of 164 titles related to subject.

- M
61-05526
- Anon.** (1960)
Mondo sommerso, 2 (4) : 14-7
 Hanno discusso l'uomo-rana (They have discussed the frog-man)
 Unofficial report of 60-055me.

- M
61-05527
- Bini, G.** (1960)
Mondo sommerso, 2 (4) : 28
 I pesci delle coste italiane—Atlante generale (The fishes of the Italian coasts—General atlas)
 Sheets for *Diplodus annularis* (L.) and *D. sargus* (L.). Gives ill. and general description of each sp., its habitat, distribution, colours, behaviour, larval characters; Italian vernacular—dialect—names, nutrition, fishery.

- M
61-05528
- de Sanctis, V.** (1960)
Mondo sommerso, 2 (4) : 45-7
 Il decompressimetro (The decompressimeter)
 Ill. description of this instrument for SCUBA divers and its use.

- M
61-05529
- de Sanctis, V.** (1960)
Mondo sommerso, 2 (4) : 50-1
 Storia dei fucili subacquei—Primo problema: l'acqua (History of under water guns—First problem: the water)

Third in series of articles on the mechanical theory of the spear.

REFERENCES

- M
61-05530
- Wiborg, K. F. (1960)**
Fiskeridir. Skr. Havundersøk., 12 (6) : 19 p.
 Investigations on zooplankton in Norwegian waters and in the Norwegian Sea during 1957-58

Quantitative seasonal variations of the zooplankton volumes at certain fixed points along the coast and at weathership ' M ' and areal quantitative distribution during several oceanographic and fisheries cruises during different seasons.

- M
61-05531
- ICNAF (1960)**
Sampl. Yearb. int. Comm. Northw. Atlant. Fish., 3 (1958) : 168 p.

Gives tables of length and age frequency distributions of samples of cod, haddock and redfish from catches by ICNAF member countries, using various gears. Introduction analysis of sampling distribution and method.

- M
61-05532
- Wooster, W. S. & G. H. Volkmann (1960)**
J. geophys. Res., 65 (4) : 1239-49

Indications of deep Pacific circulation from the distribution of properties at five kilometers

A description of the deep Pacific Ocean, based on 145 deep oceanographic stations, is presented, showing the distributions of *in situ* temperature, potential temperature, salinity and dissolved oxygen at a depth of 5 km.

- M
61-05533
- Ambraseys, N. N. (1960)**
J. geophys. Res., 65 (4) : 1257-65

The seismic sea wave of July 9, 1956, in the Greek Archipelago

Description of the progression of the wave and its characteristics.

- M
61-05534
- Fleming, R. H. (1960)**
J. geophys. Res., 65 (4) : 1314
 Oceanographic survey of the eastern Chukchi Sea

Abstr. of paper presented at the Pacific Northwest Regional Meeting, American Geophysical Union, Corvallis, Oregon, 5-6 Nov., 1959.

- F
61-05535
- Bandt, H.-J. (1959)**
Dtsch. Fisch.Ztg., 6 (11) : 321-2
 Wassertrübungen und Fische (Water turbidity and fishes)

General review.

MF
61-05536**Michailowa, L.** (1959)
Dtsch. FischZtg., 6 (11) : 336-42

Interessante Fischarten aus der Fauna Bulgariens (Interesting species of the Bulgarian fish fauna)

Short description of commercial fish from the inland, coastal and marine waters of Bulgaria.

M
61-05537**Holzlohner, S.** (1959)
Dtsch. FischZtg., 6 (11) : 343-7

Beitrag zur Fauna der Heringsfangplätze der westlichen und nördlichen Nordsee (Contribution to the fauna of herring fishing places of the western and northern North Sea)

Analyses supplementary catch and compares results obtained in 1954 with those of 1958.

M
61-05538**Nolte, W.** (1960)
Allg. FischwirtschaftZtg., 12 (5) : 7-8

Unsere Hochseekutterfischerei (Our deep-sea cutter fisheries)

Statistical review as to composition of fleet and fishing activities.

M
61-05539**Weisse, F. W.** (1960)
Allg. FischwirtschaftZtg., 12 (5) : 9-12

Zur gegenwärtigen Lage der deutschen Krabbenfischerei (On the present situation of the German shrimp fisheries)

Statistics of production and marked demand; discussion on preservation methods in the light of recently established regulations.

F
61-05540**Anon.** (1960)
Allg. FischwirtschaftZtg., 12 (5) : 24-5

Sind Fischtreppen überflüssig? (Are fish ladders superfluous?)

General discussion.

M
61-05541**Hempel, G.** (1960)
Allg. FischwirtschaftZtg., 12 (8) : 12-5

Deutsche und internationale Fischereiforschung (German and international fisheries research)

Reports on the meeting of the German Scientific Commission for the Investigation of the Sea, Hamburg, 4-5 Jan. 1960.

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61-05542
- Odum, H. T.** (1960)
Amer. Scient., 48 (1) : 1-8
Ecological potential and analogue circuits for the ecosystem

Short summary on the energy flow and circulation of material in the aquatic ecosystem and description of the ecological analogue of Ohm's law.

- F
61-05543
- Koops, H.** (1959)
Kurze Mitt. Inst. FischBiol. Univ. Hamburg, (9) : 1-60

Der Quappenbestand der Elbe. Untersuchungen über die Biologie und die fischereiliche Bedeutung der Aalquappe (*Lota lota* (L.)) im Hinblick auf die Auswirkungen des im Bau befindlichen Elbstaudes bei Geesthacht (Investigations of the biology and importance of burbot, *Lota lota* (L.) with special regard to the effects of the Elbe dam which is being constructed near Geesthacht)

Describes growth, feeding and food composition, migration, commercial value and migration; discusses results obtained with special consideration of future aspects.

- M
61-05544
- Wagner, G.** (1959)
Kurze Mitt. Inst. FischBiol. Univ. Hamburg, (9) : 61-103

Untersuchungen über die Tagesperiodizität der Nahrungsaufnahme bei *Pollachius virens* L. (Investigations of the daily periodicity of food intake in *Pollachius virens* L.)

Describes results of investigations of catches off Iceland; distribution of length of fish during the daily catches; stomach contents; behaviour in food intake; composition of diet; gut and gut contents; contents of gall-bladder, acidity; time of food digestion.

- M
61-05545
- Lewin, J. C. & R. A. Lewin** (1960)
Canad. J. Microbiol., 6 (2) : 127-34
Auxotrophy and heterotrophy in marine littoral diatoms

CR.60-1201. 44 pure cultures of marine littoral diatoms—43 pennate and 1 centric—have been studied to determine whether any accessory organic factors are essential for growth in light, and whether the cells can grow in darkness using glucose, acetate, or lactate as substrates.

- F
61-05546
- Keller, P.** (1960)
Hydrobiologia, 14 (3-4) : 205-54

Bacteriological aspects of pollution in the Jukskei-Crocodile River system in the Transvaal, South Africa

Describes investigations dealing almost exclusively with the adventitious—rather than indigenous—bacterial population.

M
61-05547**Austin, A. P.** (1960)*Hydrobiologia*, 14 (3-4) : 255-77Observations on *Furcellaria fastigiata* (L.) Lam. forma *aegagropila* Reinke in Danish waters together with a note on other unattached algal formsF
61-05548**Decloître, L.** (1960)*Hydrobiologia*, 14 (3-4) : 278-80Mise au point de systématique dans le genre *Lesquereusia* (Clarification of the systematic of *Lesquereusia*)Taxonomic note on *L. inaequalis* and *L. i. var. inaequalis*.F
61-05549**Oliff, W. D.** (1960)*Hydrobiologia*, 14 (3-4) : 281-385

Hydrobiological studies on the Tugela River system—Part 1. The main Tugela River

Part of a physico-chemical and biological survey of the entire river system—Natal—covering work between Oct. 1953–Jun. 1955. Incl: description of the basin, main river and tributaries; methods of survey, physico-chemical conditions; flora, fauna. Fish are given short mention as they will form subject of a special study.

F
61-05550**Decloître, L.** (1960)*Hydrobiologia*, 14 (3-4) : 386–Mise au point de systématique dans le genre *Diffugia* (Clarification of the systematic of *Diffugia*)

Taxonomic note.

M
61-05551**Anon.** (1960)*Trans. Amer. geophys. Un.*, 41 (1) : 98-104

IGY Bulletin—Oceanographic observations at IGY Wilkes Station, Antarctica

Description of the region, its weather and sea ice conditions, tides, currents and bottom sediments.

M
61-05552**Anon.** (1960)*Trans. Amer. geophys. Un.*, 41 (1) : 107-13

IGY Bulletin—Seismic crustal studies during the IGY—Part 1. Marine program

Preliminary results of seismic studies in several ocean areas.

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| <p>Martin, N. V. (1960)
 <i>Canad. Fish Cult.</i>, 26 : 3-6
 Homing behaviour in spawning lake trout</p> <p>Describes studies on movements of <i>Salvelinus namaycush</i> in a 1,480-acre lake in Ontario to determine whether homing tendencies would prevent them from using new artificial spawning beds. Describes methods used to attract trout to these areas.</p> | <p>F
 61-05553</p> |
| <p>Budd, J. C. & F. E. J. Fry (1960)
 <i>Canad. Fish Cult.</i>, 26 : 7-13
 Further observations on the survival of yearling lake trout planted in South Bay, Lake Huron</p> <p>Summarizes data for 1957 season on results of planting <i>Salvelinus namaycush</i> to repopulate an area from which population had disappeared probably as a result of <i>Petromyzon marinus</i> depredation.</p> | <p>F
 61-05554</p> |
| <p>Christie, W. J. (1960)
 <i>Canad. Fish. Cult.</i>, 26 : 15-21
 Variation in vertebral count in F₂ hybrids of <i>Salvelinus fontinalis</i> × <i>S. namaycush</i></p> <p>Describes methods used in making the counts and measuring the swim-bladders (X-rays of live fish anesthetized with MS222 or tricaine methane sulfonate), as a preliminary to selective breeding to obtain a fish with the 3-year reproductive cycle of <i>S. fontinalis</i> and the benthic propensity of <i>S. namaycush</i>.</p> | <p>F
 61-05555</p> |
| <p>Ryder, R. A. (1960)
 <i>Canad. Fish Cult.</i>, 26 : 23-5
 Comparative tagging returns employing three different anaesthetics</p> <p>Compares relative advantages of ether—ethyl oxide—, urethane—ethyl carbonate—, and MS222—tricaine methane-sulfonate—, during the tagging operations and also compares return of tags. Fish used was <i>Stizostedion v. vitreum</i>; area, Nipigon River, Lake Superior.</p> | <p>F
 61-05556</p> |
| <p>McDonald, J. G. (1960)
 <i>Canad. Fish Cult.</i>, 26 : 27-30
 A possible source of error in assessing the survival of Pacific salmon eggs by redd sampling</p> <p>Describes experiments with <i>Oncorhynchus nerka</i>, to determine conditions under which loss of eggs may occur and extent of loss, using artificially fertilized eggs in boxes of gravel.</p> | <p>MF
 61-05557</p> |

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- Baker, M. H. & H. H. Brohm** (1960) G
61-05558
Canad. Fish Cult., 26 : 31-4
 A modified roller press for scale impressions

Describes construction and operation of a jewellers' press in which upper roll is held under constant air pressure to provide good impressions despite differences in slide and scale thickness.

- Wiborg, K. F.** (1960) M
61-05559
Fiskeridir. Skr. Havundersøk., 12 (8) : 18 p.

Investigations on pelagic fry of cod and haddock in coastal and offshore areas of northern Norway in July-August 1957

Observations on the quantitative horizontal distribution of fry, with percentage length distribution and account of stomach content analyses.

- IUCN. Seventh Technical Meeting, Athens, Sept. 1958** (1960) MF
61-05560
 Brussels, 374 p.
 Soil and water conservation—Vol. 4. Natural aquatic resources

Contains 61-05561 to 61-05593.

- D'Ancona, U.** (1960) F
61-05561
In 61-05560 : 7-31

An introduction to the theme and a summary of the background and experience papers

Refers to theme I(d), the influence of soil and water conservation (measures) on natural aquatic resources—a symposium presented at the 7th technical meeting of the IUCN.

- Larkin, P. A.** (1960) F
61-05562
In 61-05560 : 44-52

The effect of various conservational measures or works on the aquatic environment and on the stocks of that environment

CR 60-5461. Describes probable effects of man-made changes by considering knowledge of productivity of aquatic environments, requirements of aquatic organisms, and requirements of fish populations.

- Meehean, O. L.** (1960) MF
61-05563
In 61-05560 : 53-60

Multiple purpose planning for aquatic resources

CR 60-5467. Discusses value of aquatic resources and effect of water-use projects on them; cites in detail two particular situations, Currituck Sound and Roanoke River, as examples of the complex interrelationships between natural resources.

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- MF
61-05564
- Runnstrom, S.** (1960)
In 61-05560 : 61-8
Hydro-electric power stations and fishing
- CR 60-5472. With special reference to Sweden, describes effect of lake regulation on fish reproduction, food supply, fish growth and fishing; effectiveness of maintaining a stock of salmon, *Salmo salar*, by release of smolts.
- F
61-05565
- Aass, P.** (1960)
In 61-05560 : 69-76
The effects of impoundment on inland fisheries
- Discusses the effects on: food and growth, propagation, migrations, size and composition of stock, and methods of fishing.
- MF
61-05566
- Somme, S.** (1960)
In 61-05560 : 77-80
The effects of impoundment on salmon and sea trout rivers
- Discusses effects of barrage dams, water diversion and flow maintenance dams and measures that may be taken to alleviate these ill effects on fisheries.
- MF
61-05567
- McGrath, C. J.** (1960)
In 61-05560 : 81-92
Dams as barriers or deterrents to the migration of fish
- CR 60-5466. The various ways in which the spawning migration of fish can be impeded, prevented or nullified by dams are discussed with reference to actual experiences with Atlantic salmon in Ireland. Proposals for overcoming some of the difficulties are discussed, in particular the improvement of entrances to fish passes for upstream and downstream migrants.
- MF
61-05568
- Royal, L. A. & A. C. Cooper** (1960)
In 61-05560 : 93-100
Dams as barriers or deterrents to the migration of fish
- CR 60-5471. A review which emphasizes that a proper stream environment is just as important to the preservation of a fishery as the provision of physical means of continuation of the migration; has special reference to salmonids in streams of western North America.
- F
61-05569
- Wiebe, A. H.** (1960)
In 61-05560 : 101-17
The effects of impoundments upon the biota of the Tennessee River system
- Describes the character and scope of the Tennessee Valley Authority river development, its mode of operation especially as related to water-level fluctuations and general effects of its series of dams upon invertebrate fauna, the fishery and migratory waterfowl.

- Wood, R. & D. W. Pfitzer** (1960) F
61-05570
In 61-05560 : 118-38

Some effects of water-level fluctuations on the fisheries of large impoundments.

CR 60-5481. Reviews concepts and experiments using examples mainly drawn from southeastern USA, which indicate that productivity, sp. composition and ratios of different classes of fish are influenced by water fluctuation.

- Maar, A.** (1960) F
61-05571
In 61-05560 : 139-51

Dams and drowned-out stream fisheries in Southern Rhodesia (Federation of Rhodesia and Nyasaland)

CR 60-5465. Describes physico-chemical conditions influencing fisheries, describes the dams and their fisheries and the new Lake Kariba on the Zambesi River.

- Damas, H.** (1960) F
61-05572
In 61-05560 : 152-7

Le lac de barrage de la Lufira (The barrage lake of the Lufira River)

CR 60-5456. Discusses with respect to a 400 km² reservoir on a tributary of the Congo River, vegetation, fauna, water chemistry, and sedimentation.

- Wales, J. H.** (1960) F
61-05573
In 61-05560 : 158-63

The effects of water diversions on fish

CR 60-5480. Discusses principal effects—reduction of natural stream flow, harmfulness of the conduit to fish, distribution of fish entering diversions—and suggests methods to alleviate harmful effects.

- Curtis, B.** (1960) F
61-05574
In 61-05560 : 164-74

Observed changes in a river's physical characteristics under substantial reductions in flow due to hydro-electric diversion

CR 60-0309. Describes a study in northern California aimed at providing factual data as an aid in determining the amount of water to be released at dams for maintenance of aquatic life in the channel below.

- Trautman, M. B.** (1960) F
61-05575
In 61-05560 : 175-84

Diversions, canals and conduits—Their role in introducing aquatic organisms into drainage basins where they did not reside formerly

CR 60-5479. As examples, the author uses canals in eastern North America: Welland Canal and the Ohio Canals.

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Deelder, C. L. & D. E. Van Drimmelen (1960) MF
In 61-05560 : 185-90 61-05576

The decline of the fish-stocks in the Netherlands' sections of the Rivers Rhine and Meuse

CR 60-5460. Describes the effect on stocks of salmon, *Salmo salar* and eel, *Anguilla anguilla*, as a consequence of industrialization and a loss in natural character of the rivers.

Moretti, G. (1960) F
In 61-05560 : 191-204 61-05577

Influence des ouvrages hydrauliques et des pollutions industrielles sur la faune fluviale de l'Apennin, des Marches et de l'Ombrie (The influence of hydraulic works and industrial pollution on the fluvial fauna of the Apennines, of the Marches and Umbria)

CR 60-5468. Describes: hydrologic characteristics of the river systems of Lombardy and the Marches, Italy; the effects of hydroelectric and irrigation reservoirs, canals and other works of man, on aquatic life; effects of pollution on aquatic fauna.

Liepolt, R. (1960) F
In 61-05560 : 205-14 61-05578

Die hydrobiologischen Auswirkungen der Gewässerverbauung (The hydrobiological effects of hydraulic works). En

A review of the importance of various physical, chemical and biological factors in the production of aquatic organisms and the changes brought about by different types of engineering works, and of the materials and types of construction which will best benefit bodies of waters from a biological standpoint.

Liebmann, H. (1960) F
In 61-05560 : 236-41 61-05579

The influence of sewages on fisheries

CR 60-5463. Discusses the following harmful effects of pollutants on fish: toxic, oxygen depletion, shift in biological balance, storage of taste influencing substances in the body.

Tarzwel, C. M. (1960) F
In 61-05560 : 242-52 61-05580

Effects and control of stream pollution

CR 60-5477. Discusses types of pollutants, their effects on beneficial uses, pollution control and—with special reference to aquatic life—water quality criteria.

F

Lhoste, J. (1960)

61-05581

In 61-05560 : 253-64

Les répercussions de l'emploi des désherbants chimiques sur la faune aquatique (The effects of the chemical control of plants on aquatic fauna)

CR 60-5462. A review of the effects of specific inorganic and organic chemicals.

MF

Muus, B. (1960)

61-05582

In 61-05560 : 265-70

The influence of drainage work and reclamation on stocks in Danish estuarine waters

CR 60-5469. Describes studies of microflora, attached fauna, fish populations and fish catch designed to determine the value of estuaries for the fishing industry.

MF

Dill, W. A. & G. L. Kesteven (1960)

61-05583

In 61-05560 : 271-306

Methods of minimizing the deleterious effects of water- and land-use practices on aquatic resources

CR 582846. Reviews the practical techniques that—applied to environment or stocks—may prevent, alleviate or capitalize on the consequences of environmental changes induced by water- and land-use practices; and presents suggestions as to how the acceptance of these measures can be achieved in the face of conflicting objectives.

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Lindroth, A. (1960)

61-05584

In 61-05560 : 308-15

Anadromous fish conservation in a Swedish salmon river

CR 60-5464. Describes the Indalsälven River, its fish and fishing industry, a hydro-electric project which cut off spawning grounds for salmon, *Salmo salar*, seatrout, *S. trutta*, and whitefish, *Coregonus lavaretus*, and the stocking program adopted to overcome this difficulty.

MF

Deelder, C. L. (1960)

61-05585

In 61-05560 : 316-20

Modern fish passes in the Netherlands

CR 60-5459. Describes barriers to fish migration on the Meuse River, faults of present Denil and pool type fish passes, and a new hydraulic fish lock which operates with success.

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- Deelder, C. L. (1960)**
In 61-05560 : 321-2
 Conservation of elver migration routes into the inland water system of the Netherlands
- CR 60-5458. Describes a method to allow inward passage of elvers, *Anguilla anguilla*, through a salt water barrier-dam—into fresh water without simultaneous passage of salt water to the freshwater side.
- MF
61-05587
- van Someren, V. D. (1960)**
In 61-05560 : 323-36
 Fishery problems created by water utilization projects in Scotland and East Africa
- CR 60-5473. Deals with problems affecting Atlantic salmon stocks in Scotland arising from hydro-electric power development of river, and secondly with those affecting commercial river fisheries in Kenya Colony arising from irrigation projects.
- MF
61-05588
- Stuart, T. A. (1960)**
In 61-05560 : 337-45
 The influence of drainage works, levees, dykes, dredging, etc. on the aquatic environment and stocks
- CR 60-5475. Deals with the consequences to salmonid stocks, their food supplies, shelter, access to and from spawning grounds, following upon drainage activities, etc. Effects of drainage works are examined and compared with conditions obtained in natural systems. The possibility of combining the desirable features of both systems with a view to conservation and improvement of stocks in artificial channels is discussed. Suggestions are made and experiments described which endeavour to achieve this result without interference with, but possibly with benefit to, other legitimate uses of land and water.
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- Clay, C. H. (1960)**
In 61-05560 : 346-51
 The Okanogan River flood control project
- Describes an example of achievement of desired measures of flood control without harm to anadromous fish utilizing the river. The natural environment of the anadromous fish utilizing the river was protected by designing the project to maintain the required physical conditions during the spawning and incubation periods, and by providing ready access over drop structures to the spawning areas above.

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61-05590
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In 61-05560 : 352-6
 Effets du barrage de Markala sur les migrations de poissons dans le Moyen-Niger (Effects of Markala Dam on the migrations of fish in the Middle Niger River)
- CR 60-5457. The Markala barrage lake is a great obstacle for fish migration, hence an economic damage to the country. Two fish passages do not solve the problem.
- F
61-05591
- Beauchamp, R. S. A.** (1960)
In 61-05560 : 357-62
 Utilizing the natural resources of Lake Victoria for the benefit of both fisheries and agriculture
- CR 582521. Discusses sulphur deficiencies in the waters and soils of Africa, the importance of maintaining adequate stocks of *Tilapia* in Lake Victoria to maintain fertility, use of bottom muds, etc.
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61-05592
- Worthington, E. B.** (1960)
In 61-05560 : 363-4
 The influence of soil and water conservation on natural aquatic resources
- CR 60-5482. Only a summary of the original paper is presented. It examines some general principles with reference to African catchment basins, especially the Nile.
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61-05593
- Pentelow, F. T. K.** (1960)
In 61-05560 : 365-70
 Pollution control and water conservation
- CR 60-5470. Discusses losses of water incl. that caused by water pollution, types of waste waters and their effects, and methods of pollution control.
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 The relationship of reproductive temperature and the geographical range of the marine woodborer *Limnoria tripunctata*
- Experiments with this sp. of world-wide distribut on.
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- Boyd, C. M.** (1960)
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 The larval stages of *Pleuroncodes planipes* Stimpson (Crustacea, Decapoda, Galatheidæ)
- Describes and ill. material—and experiments with it—from Baja California, Mexico.

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- Crisp, D. J. & B. S. Patel** (1960)
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61-05597
- Eppley, R. W. & C. C. Cyrus** (1960)
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 Cation regulation and survival of the red alga, *Porphyra perforata*, in diluted and concentrated sea water
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61-05598
- Hanlon, D. P.** (1960)
Biol. Bull., Woods Hole, 118 (1) : 79-83
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- Aquarium experiments with fish from Oyster River, New Hampshire; analysis by quantitative paper chromatography.
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Biol. Bull., Woods Hole, 118 (1) : 137-49
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- Role of gonadotropic hormones in the maturity of male eel.
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- Ci 61-02964. Comparative experimental study of marine mussel *Mytilus* which has large amounts of taurine in tissues, and freshwater *Rangia* which has none detectable by paper chromatography, involved administration of S³⁵-methianine, S³⁵-cysteine and S³⁵-taurine.
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Biol. Bull., Woods Hole, 118 (2) : 183-202
 The effect of salinity and temperature on larval development of *Sesarma cinereum* (Bosc) reared in the laboratory
- Ci 60-2095, 60-0207, and 570201. Rearing experiments with crab specimens from Beaufort, N.C., larvae fed with *Artemia* and *Arbacia*. Gives isopleths of mortality rates for salinity and temperature coordinates.
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- Blood pressure records of specimens from Oslofjord, Norway.

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The excretion of inulin and glucose by the crayfish antennal gland

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Physical and chemical studies of the water and bottom sub-strate and lists of the aquatic plants in the lakes and brooks investigated.

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Contributions of Hudson and Connecticut rivers to New York-New Jersey shad catch of 1956

Describes use of a calculated discriminant function derived from meristic data to determine this.

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Toivonen, J. (1960)

Suom. Kalastusl., 67 (2) : 31-5

Kalojen ravintoeläinten siirtoistutuksista neuvostoliitossa ja mahdollisuuksista meillä (Transplantation of the fish food organisms in USSR and possibilities in our country)

Review of the transplantation of fish food organisms in Russia, and possibilities for transplantation of fresh water benthic organisms in Finland, with notes on the benthic productivity in different lakes.

MF

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Suom. Kalastusl., 67 (2) : 36-40

Kaikuluotaimen asentaminen kalastusalukseen (The placing of echo-sounders into fish cutters)

Technical descriptions of mounting of transducers in different positions by wooden and iron vessels.

M

Sjöblom, V. (1960)

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Ajankohtaista norjalaisista sillintutkimuksista (On the recent Norwegian herring investigations)

A review of the recent Norwegian work on herring and scouting for it.

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Suom. Kalastusl., 67 (2) : 101-3

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A discussion on the observations and possibilities that fish are getting used to gear and learning to avoid it.

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Hauen haudontalaatikko (A hatching tank for pike)

Description of the tank.

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Korhonen, M. (1960)

61-05619

Suom. Kalastusl., 67 (2) : 104

Kalastajan lämpömittari (A fishermen's thermometer)

Description of a simple electric thermometer and its use.

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Ichiye, T. (1958)

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J. oceanogr. Soc. Japan, 14 (2) : 35-40

A theory of vertical structure of density in the ocean

A theoretical mathematical exercise with various approximations.

M

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J. oceanogr. Soc. Japan, 14 (2) : 41-4

A theory on the generation of tsunamis by an impulse at the sea bottom

A theory of tsunami generation by an impulse at the sea bottom is proposed. The bottom is supposed to be suddenly elevated, and corresponding oscillations of the water up to the surface and the propagation of tsunami waves in both directions are shown.

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 Measurements of angular distribution of submarine daylight by means of a new instrument

Description of instrument with examples of measurements made.

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Moskva, Izd.-vo Akad. Nauk S.S.S.R., 301 p.
Kumovye raki (Cumacea) morei SSSR (Cumacea from the seas of USSR)

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J. Fish. Res. Bd Can., 16 (6) : 763-89

Variations in caudal pigmentation in late-stage pre-extrusion larvae from *marinus*- and *mentella*-type female redfish from the Newfoundland area

Describes observations indicating to the authors that a real genetic difference exists between *mentella* and *marinus* types of *Sebastes marinus* in the North-west Atlantic.

- LeBrasseur, R. J.** (1959) MF
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J. Fish. Res. Bd Can., 16 (6) : 796-805

Sagitta lyra, a biological indicator species in the subarctic waters of the eastern Pacific Ocean

Deals with the distribution of this chaetognath in the Gulf of Alaska with relation to the oceanography and salmon, *Oncorhynchus*, catches within the area.

- McKenzie, R. A.** (1959) MF
61-05677
J. Fish. Res. Bd Can., 16 (6) : 807-33

Marine and freshwater fishes of the Miramichi River and Estuary, New Brunswick

Describes the river's physical features, its fisheries and provides notes on 78 spp. of fishes—53 marine, 7 anadromous, 1 catadromous, 17 freshwater—belonging to 38 families found in the river system.

- Hunter, J. G.** (1959) MF
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J. Fish. Res. Bd Can., 16 (6) : 835-86

Survival and production of pink and chum salmon in a coastal stream

Describes a study at Hooknose Creek, B.C., 1947-57, of *Oncorhynchus gorbuscha* and *O. keta*; spawning escapements, egg content and deposition, fry escapement, predation, influencing factors on survival to fry emergence, ocean survival, prediction of adult returns.

- Smith, M. W.** (1959) MF
61-05679
J. Fish. Res. Bd Can., 16 (6) : 887-95

Phosphorus enrichment of drainage waters from farm lands

Describes studies inferring that commercial land fertilizers from cultivated lands on Prince Edward Island, are important factors in maintaining high trout, *Salvelinus fontinalis*, production and may enhance oyster production in shallow saltwater inlets at the mouths of streams.

- Ricker, W. E. (1959)** MF
61-05680
J. Fish. Res. Bd Can., 16 (6) : 897-902
Additional observations concerning residual sockeye and kokanee (*Oncorhynchus nerka*)

Describes the production of a lake-maturing "residual" in barren lakes in British Columbia through planting of anadromous fish. Corrects a former assumption of Ricker, W. E., 1940, that Cultus Lake, B.C., kokanees were of native Cultus Lake stock, by showing that they probably were of Kootenay Lake origin.

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J. Fish. Res. Bd Can., 16 (6) : 903-22
Some morphological differences between the subspecies of cutthroat trout, *Salmo clarkii clarkii* and *Salmo clarkii lewisi* in British Columbia

Also records the natural distribution.

- Neumann, J. (1959)** F
61-05682
J. Fish. Res. Bd Can., 16 (6) : 923-7
Maximum depth and average depth of lakes

By considering data of maximum depth and average depth for 107 lakes, it is suggested that an "elliptic sinusoid" closely approximates the average shape of lake beds. The elliptic sinusoid is defined as a geometric body whose base is an ellipse such that planes perpendicular to the base ellipse passing through the centre of the latter intersect the surface of the body along troughs of sine curves.

- Blanke, W. (1959)** G
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Bremen, Forschungsstelle für Fischwirtsch. im Bremer Ausschuss für Wirtschaftsforsch., 107 p.
Allgemeine Grundlagen der Fischereipolitik (General fundamentals of the fisheries politics)

Theory of national economic politics with application to the economic problems in fisheries.

- Pochmann, A. (1959)** MF
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Arch. Protistenk., 103 (3-4) : 507-30
Über *Choanogaster*, einen neuen farblosen Salzflagellaten vom Urmia-See (On *Choanogaster*, a new colourless salt water flagellate from Lake Urmia)

Taxonomic description and ecological notes.

- Sapkarev, J. (1960)** F
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Bull. sci. Youg., 5 (2) : 44-5
Vertikale Verteilung des Benthos in rezenten Ablagerungen des Profundals des Prespan-Sees (The vertical distribution of benthos in recent deep deposits of Lake Prespan)

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61-05686
- Phillips, R. C.** (1959)
Quart. J. Fla Acad. Sci., 22 (3) : 155-62
 Notes on the marine flora of the Marquesas Keys, Florida
 Gives a brief account of observations and a list of plants identified.
- F
61-05687
- Elster, H.-J.** (1959)
Fischwirt, 9 (12) : 345-56
 Einige Beobachtungen über die Binnenfischerei Ägyptens (Some observations on the inland fisheries of Egypt)
 General description.
- F
61-05688
- Mann, H.** (1959)
Fischwirt, 9 (12) : 356-8
 Wachstumssteigerung bei Karpfen nach der Behandlung mit Antibiotika (Increase in growth of carp after treatment with antibiotics)
 Describes experiments and discusses the reasons of the increase in weight after injections with leucomycin.
- F
61-05689
- Deufel, J.** (1960)
Fischwirt, 10 (1) : 13-4
 Malachitgrün zur Bekämpfung von *Ichthyophthirius* bei Forellen (Malachite green for the control of *Ichthyophthirius* in trout)
 Describes control tests and proposes a solution of 40 gr per 600 m² of pond area.
- F
61-05690
- Wunder, W.** (1960)
Fischwirt, 10 (2) : 35-40
 Missbildungen bei kleinen Hechten (Malformation in small pikes)
 Describes body defects; discusses causes of their occurrence and suggests control measurements.
- F
61-05691
- Deufel, J.** (1960)
Fischwirt, 10 (4) : 101-2
 Versuche mit dem neuen Vitaminpräparat Salmovit bei der Forellenfütterung (Experiments with the new vitamin preparation Salmovit in feeding trout)
 Describes vitamin composition and attributes better growing rates to addition of vitamin.
- F
61-05692
- Wunder, W.** (1960)
Fischwirt, 10 (5) : 125-37
 Wie verhält sich das Plankton in Teichen, die mit Branntkalk behandelt werden? (How does plankton behave in ponds treated with quick lime?)

- F
61-05693
- Rahn, J. (1960)**
Dtsch. FischZtg., 7 (3) : 65-71
 Karpfenwirtschaft im Torgelower See (Carp management in the Lake of Torgelow)
- Reviews the role of carp in lakes of the German People's Republic; summarizes the results obtained in a 300 ha lake.
- F
61-05694
- Köhler, J. (1960)**
Dtsch. FischZtg., 7 (3) : 71-3
 Brutbesatz (Stocking with fry)
- . General review on stocking of natural waters.
- F
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- Schier, N. (1960)**
Dtsch. FischZtg., 7 (3) : 73-4
 Über den Hecht als Nebenfisch in Karpfenteichwirtschaften (On the pike as an associated fish in carp ponds)
- General review and proposals for combinations.
- F
61-05696
- Schäperclaus, W. (1960)**
Dtsch. FischZtg., 7 (3) : 75-9
 Erhöhte Karpfenproduktion durch Steigerung der Fütterung (Increased carp production through increased feeding)
- Summarizes feeding problems; describes experiments with different food quantities in relation to stocking rates; analyses results obtained.
- F
61-05697
- Merla, G. & G. Michler (1960)**
Dtsch. FischZtg., 7 (3) : 79-82
 Prozentuale Verteilung der Teichflächen für Aufzucht und Abwachs von Karpfen (Percentage distribution of pond areas for breeding and rearing of carp)
- F
61-05698
- Steffens, W. (1960)**
Dtsch. FischZtg., 7 (3) : 82-9
 Zanderzucht in Karpfenteichen (Pike-perch cultivation in carp ponds)
- Reviews literature and proposes a plan for carp breeding, sorting and transportation of fry.
- F
61-05699
- Anon. (1960)**
Allg. FischZtg., 85 (7) : 147
 Die Zander-Brutkiste (Incubator box for pike-perch)
- Technical description.

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- Schmidt, H. W.** (1960) F
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Allg. FischZtg., 85 (8) : 173-4
 Rabenvögel und Fischerei (Ravens and fisheries)
 Reviews Corvidae and their relation to fish and fisheries.
- Keiz, G.** (1960) F
61-05701
Allg. FischZtg., 85 (8) : 176-7
 Zur Bekämpfung der Fliegen- und Rattenplage in Forellenteichwirtschaften
 (The control of flies and rats in trout ponds)
 General description of control measurements and their effect on trout fingerlings.
- Lindner, A.** (1960) M
61-05702
Fischereiforschung, 3 (2) : 13-6
 Über Beziehungen des marinen Planktons zu hydrographischen Verhältnissen
 (On the relationship between marine plankton and hydrographic conditions)
- Harry, G. Y., Jr.** (1959) M
61-05703
Res. Briefs, 7 (1) : 5-13
 Time of spawning, length at maturity, and fecundity of the English, Petrale and Dover soles (*Parophrys vetulus*, *Eopsetta jordani* and *Microstomus pacificus*, respectively)
- Burt, W. V. & W. B. McAlister** (1959) MF
61-05704
Res. Briefs, 7 (1) : 14-27
 Recent studies in the hydrography of Oregon estuaries
 Description of the types of estuaries with reference to the estuaries of the Oregon coast and notes on the application of the knowledge on the hydrography of the estuaries on biological engineering and pollution problems.
- Snow, C. D.** (1959) M
61-05705
Res. Briefs, 7 (1) : 78
 Occurrence of deep-pitted sea-poacher in Oregon
 Brief description of *Bothragonus swanii* caught in a tide pool at Boiler Bay.
- Bond, C. E.** (1959) M
61-05706
Res. Briefs, 7 (1) : 79-80
 Records of agonid fishes from Oregon
 Records of catches and occurrence of *Pallasina barbata aia*, *Stellerina xyosterna* and *Agonus acipenserinus*.

- MF
61-05707
- Herrmann, R. B.** (1959)
Res. Briefs, 7 (1) : 81
 Occurrence of juvenile pink salmon in a coastal stream south of the Columbia River
- Note on occurrence of *Oncorhynchus gorbuscha* in Yaquina Bay.
- MF
61-05708
- Merrell, T. R.** (1959)
Res. Briefs, 7 (1) : 82
 Gull food habits on the Columbia River
- A note on stomach contents of *Larus californicus*, *L. delawarensis*, *L. occidentalis* and *Sterna forsteri*. *Lampetra planeri* consisted the bulk of the food of the gulls.
- MF
61-05709
- van Hyning, J. M.** (1959)
Res. Briefs, 7 (1) : 82
 Marked pink salmon
- Record of recovery of *Oncorhynchus gorbuscha* off the Columbia River marked by clipping of adipose and right ventral fins.
- M
61-05710
- U.K. White Fish Authority** (1960)
 U.K. House of Commons, Sessional Pap. no. 77
 White fish and herring industries acts, 1953 and 1957
- Account of receipts and payments of grants 1958-59; together with the report of the comptroller and auditor general thereon.
- M
61-05711
- U.K. Parliament** (1960)
 London, H.M.S.O., Cmnd (938)
 Colonial research, 1958-59
- Incl. report of the Colonial Fisheries Advisory Committee.
- G
61-05712
- IAEA** (1959)
 London, H.M.S.O.
 International Directory of radioisotopes. Vol. 2
- Compounds of carbon 14, hydrogen 3, iodine 131, phosphorus 32 and sulphur 35.
- M
61-05713
- U.K. Ministry of Transport** (1959)*
 London, H.M.S.O.
- Regulations for the examination of skippers and second hands of fishing boats

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- FAO. Fisheries Division, Biology Branch (1960)**
FAO, Rome, 48 p.
Existing and possible mechanisms of coordination of international action in the field of oceanography
CR 61-04450.
- MF
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- Holt, S. J. (1960)**
Rev. Doc., 27 (3) : 108-18
The intelligence service for aquatic sciences and fisheries provided by the Food and Agriculture Organization of the U.N.
CR 61-02882. Account of systems developed for collection, compilation and storage of information, with special reference to the output from these systems. Considers form of certain services already being provided within the subject field. Gives prominence to current bibliographic service. Issued also as: *Contr. Publ. IPFC/C61/CP18*.
- F
61-05716
- Tesch, F. W. (1960)**
Dtsch. FischZtg., 7 (1) : 10-9
Fischereiwissenschaft und Praxis in der Volksrepublik Polen (Fisheries science and practice in the Polish People's Republic)
Ill. scientific education, water surfaces and their management; the work of scientific institutions.
- F
61-05717
- Barthelmes, D. (1960)**
Dtsch. FischZtg., 7 (1) : 19-23
Probefänge in Karpfenteichen und ihre Bewertung (Sample catches in carp ponds and their evaluation)
Statistical analyses and practical suggestions on how to avoid misleading test results.
- MF
61-05718
- Mattheis, Th. (1960)**
Dtsch. FischZtg., 7 (1) : 23-5
Das Aalsterben an der Ostseeküste zwischen Usedom und Wismar im Sommer 1959 (Eel mortality off the Baltic coast between Usedom and Wismar during the summer 1959)
Describes mass mortality caused by *Vibrio anguillarum*.
- MF
61-05719
- Chadwick, H. K. (1960)**
Adm. Rep. Inl. Fish. Calif., 60 (1) : 35 p.
Progress report of the striped bass tagging study
Provides detailed description of a projected three-year tagging study, initiated in 1958, of *Roccus saxatilis* in the Sacramento-San Joaquin Delta and San Francisco Bay area, California, to obtain estimates of angling and natural rates and further knowledge of migrations. Discusses methods, program and results to date, early 1959.

F

61-05720

von Geldern, C. E., Jr. & C. S. Kabel (1960)

Adm. Rep. Int. Fish. Calif., 60 (2) : 31 p.

The 1958 Convict Lake creel census

Describes a 13-day census at a 168-acre mountain lake in California to test the validity of census methods and to evaluate the role of catchable trout plantings.

MF

61-05721

Rice, G. V. (1960)

Adm. Rep. Int. Fish. Calif., 60 (3) : 8 p.

Use of coldwater holding facilities in conjunction with king salmon spawning operations at Nimbus Hatchery

With respect to a California hatchery with a warm water supply, describes an experiment to determine the influence of cold water in keeping adult *Oncorhynchus tshawytscha* alive until they have ripened and the effect of temperature on the quality of the eggs.

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VOLUME 5—MEETINGS : CONGRESSES, CONFERENCES, SYMPOSIA, COURSES, TRAINING CENTRES

61-323me to 61-352me

SCOR (ICSU). 10/9/62 M
61-323me
Bergen, Norway. 5 days
1st Meeting of the working party on fisheries oceanography

British Ecological Society. 11/4/62 MF
61-324me
North Wales, Bangor. 4 days
4th Symposium

ICSU. 21/5/62 G
61-325me
Morges, Switzerland. 2 days
Meeting of planning committee

IMCO. 3/4/62 M
61-326me
London, U.K. 11 days
International conference on prevention of pollution of the sea by oil
Amendment to 61-147me.

FAO. Jun./62 MF
61-327me
Accra, Ghana. 5 days
West African Fisheries Commission

Challenger Society. 27/6/62 M
61-328me
London, U.K. 1 day
Annual general meeting and 214th scientific meeting

Dr. Adrian Richards will give an account of " The birth and development of
Barcena volcano, San Benedicto Is., Mexico and Cape Linhos volcano,
Fayal Island, Azores ".

SCOR (ICSU)/IOC. 30/7/62 M
61-329me
Washington, U.S.A. 4 days
Ad hoc working group on the exchange of oceanographic data

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- FAO.** Aug./62 M
61-330me
Rio de Janeiro, Brazil.
Meeting of the SW Atlantic Fishery Advisory Commission
- SCOR (ICSU)/IOC.** 6/8/62 M
61-331me
Paris, France. 5 days
Ad hoc working group on radio communications
- SCOR (ICSU)/IOC.** 6/8/62 M
61-332me
Paris, France. 5 days
Ad hoc working group on fixed stations
- International Phycological Society.** 19/8/62 MF
61-333me
Madison, Wis., U.S.A. 7 days
2nd Meeting

In conjunction with 61-138me.
- ASLO/AIBS.** 26/8/62 MF
61-334me
Corvallis, Oreg., U.S.A. 6 days
25th Annual meeting

Sessions will incl. symposia on: Sampling and analysis of natural populations and marine basins and fjords.
- U.S. Office of Naval Research.** 27/8/62 M
61-335me
Washington, D.C. 5 days
4th Symposium on naval hydrodynamics
- Royal Meteorological Society/Challenger Society.** 12/9/62 M
61-336me
London, U.K. 1 day
Joint meeting

Contributed papers: A. R. Robinson, "Instability of a thermal ocean circulation", W. H. Munk, "Bispectra of ocean waves".
- FAO/WHO/IAEA.** 17/9/62 G
61-337me
Cincinnati, Ohio, U.S.A. 40 days
International training course on surveys for radionuclides in foods
- SCOR (ICSU).** 17/9/62 M
61-338me
Paris, France. 3 days
2nd Meeting of the executive committee

MEETINGS

- FID.** 24/9/62
Scheveningen, The Hague, Netherlands. 6 days
28th Conference
G
61-339me
- FAO.** Sept.-Oct./62
Rome, Italy.
Working committee on stability of fishing vessels
MF
61-340me
- IPFC.** 8/10/62
Seoul, Korea. 2 days
34th Meeting of the executive committee
MF
61-341me
- ISA.** 15/10/62
New York, U.S.A. 4 days
17th Annual instrument-automation conference and exhibit
G
61-342me
- Designed to aid in plotting the new developments in instrumentation and control. Will display products and application techniques spanning the entire instrumentation technology, including automatic control systems, components, accessories.
- ICSU.** 19/10/62
Prague, Czechoslovakia. 3 days
14th Meeting of the executive committee
G
61-343me
- Delft. Technological University/Netherlands Universities
Foundation for International Cooperation/WHO/OECD.**
22/10/62-7/9/63
Delft, Netherlands.
European course in sanitary engineering
F
61-344me
- CR 61-013me.
- IPFC.** 26/10/62
Seoul, Korea. 1 day
35th Meeting of the executive committee
MF
61-345me
- FAO.** Oct.-Nov./62
Gdansk, Poland. 12 days
Meeting of Government representatives on " Safety of sea "
M
61-346me
- Institute of Economics.** 5/11/62
Bergen, Norway. 26 days
Research seminar on fishery economics
MF
61-347me

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- GCFI.** 12/11/62 M
Galveston, Texas, U.S.A. 5 days 61-348me
15th Meeting

Amendment to 61-236me.
- FAO.** 12/11/62 F
Rome, Italy. 6 days 61-349me
Conference on pesticides in agriculture
- FAO.** 12/11/62 MF
Tunis. 6 days 61-350me
1st Meeting of the West African Fisheries Commission
- IAEA.** 21/11/62 M
Vienna, Austria. 3 days 61-351me
Meeting of panel on co-ordination of research contracts on radioactivity in
the marine environment
- FAO.** 27/5/63 MF
London, U.K. 5 days 61-352me
2nd International fishing gear congress

Amendment to 61-238me.

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CCTA/CSA, L (60) 204, mimeo, 29 p.
Rapports et recommandations (Reports and recommendations)
- Fr* 61-04086, *Do* 60-148me. List of participants; agenda; list of documents; reports on each agenda item with reference to relevant documents, general studies; methods of water analysis; dynamics of fish populations; collaboration between laboratories; introduction of exotic spp.; pathology; *Tilapia*; other fishes; economics of fish culture.
- FG
61-05749
- Vibert, R. & K. F. Lagler (1961)**
Paris, Dunod, 720 p.
Pêches continentales—Biologie et aménagement (Inland fisheries—Biology and management)
- Ci* 1953, Rounsefell, G. A. & W. H. Everhart, 1954, Schaeffer, M. B., 570042, 570270, 570271, 570331, 570444, 570517, 570612, 570695, 571176, 571877, 580085, 581068, 581470, 581626, 581789, 583055, 584541, 584878, 584952, 584983, 585034, 585039, 585763, 59-0323, 59-0546, 59-0969, 59-1839, 59-3008, 59-6671, 59-6812, 59-9176. A comprehensive reference and textbook. First part, on "ecological fundamentals", has chapters on ecology and ecosystems, energy cycles, heredity, environment, populations and communities succession, mathematical theory of fishing. Second part, on "principles of management", deals with management of environment, of stocks, and of exploitation, and with public information problems. Third part, on "practice of management", deals with natural and semidomestic waters, lagoons, ponds, etc. Fourth part on "particular techniques" gives chapters on marking, statistical analysis, age and growth studies, nutrition, catch statistics, population inventory, ecological diagnoses. Subject index—incl. spp.—and also detailed systematic contents list. References at end of each chapter.
- MF
61-05750
- Vinogradov, K. A. (1960)***
Kiev, Vid-vo Akademii nauk Ukr. R.S.R., 114 p.
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- M
61-05751
- Doukan, G. (1960)***
Paris, A. Michel, 142 p.
Guide pratique de chasse sous-marine (Practical guide on underwater fishing)
- F
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- Cook, F. A. (1959)***
Jackson, Mississippi Game & Fish Commission, 239 p.
Freshwater fishes in Mississippi

- U.S. Congress. House. Committee on Merchant Marine & Fisheries (1960)*** MF
61-05753
Washington, U.S. Govt Print. Off., 116 p.
Fish and wildlife legislation. Hearings before the Sub-committee on Fisheries & Wildlife Conservation of the Committee on Merchant Marine & Fisheries, House of Representatives, Eighty-sixth Congress, second session, on H.R. 7386 and others...

- Carriker, M. R. (1960)** M
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Science, 132 (3443) : 1875-6
Thurlow Christian Nelson, marine biologist

Obituary and short biography.

- Wolf, K. et al. (1960)** F
61-05755
Science, 132 (3443) : 1890-1
Preparation of monolayer cell cultures from tissues of some lower vertebrates

Cold trypsin dispersion at pH 7.2 used to obtain cultivable cells and cell groups from tissues of *Salmo gairdneri*, *Salvelinus fontinalis*, *Salmo trutta*, *Lepomis macrochirus* and *Carassius auratus*.

- Anon. (1960)** F
61-05756
Gaz. Agric., Moçambique, 12 (134) : 218-24
Regulamento da piscicultura e pesca nas águas interiores da província (Regulation of pisciculture and fishing in the inland waters of the province)

- Anon. (1960)** M
61-05757
Informac. soc., 15 (2) : 37-41
El nuevo reglamento de la industria de la pesca (New regulations of the fisheries industry)

TA 15. Survey of regulations of Peruvian fisheries industry, comprising, *inter alia*, particulars on contracts, the establishment of an insurance fund, etc.

- Anon. (1960)** F
61-05758
Marchés trop. Médit., 17 (777) : 2123-49
Le tourisme, la chasse, la pêche et le camping outremer (Tourism, hunting, fishing and camping in the former French overseas territories)

TA 15.

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61-05759
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Fishermen of the Zambezi

TA 15. Study on fishing methods and fish potential of the Valley Tonga belonging to the Zambezi channel in S. Rhodesia. Tables of fish spp. and of vegetable fish poisons.

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Joint programme of fisheries and oceanographic research for the Gulf of Guinea (Joint project No. 19)
- Svetovidov, A. N.** (Walters, W. J. & V. Walters, Transl.) (1960) M
61-05761
Washington, D.C., mimeo, 33 p.
Materials on the structure of the fish brain. 1. Structure of the brain of codfishes
En 59-2466 UL. Refers to gadid spp. of *Gadus*, *Brosme*, *Ciliata*, *Gaidropsarus*, *Enchelyopus*, *Raniceps*, *Phycis*, *Lota*, *Boreogadus*, *Arctogadus*, *Theragra*, *Eleginus* and comparison with other groups.
- De Wit, C. T.** (1960) G
61-05762
Versl. Landbouwk. Onderz., (66.8) : 82 p.
On competition
Mathematical analysis of simple and complex models of interspecific competition; analogy with binary mixtures of liquids; crowding, and mixtures of healthy and diseased organisms; spacing experiments, population growth models; applications are to terrestrial crops, but discussion is general.
- O'Connor, J. S., S. B. Saila & T. Gaucher** (1960) MF
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The rotating ocean and Chile's catastrophe
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- Ueyanagi, S.** (Van Campen, W. G., Transl.) (1961) M
61-05766
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En 60-9144.

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- Ueyanagi, S. & H. Yabe** (Van Campen, W. G., Transl.) (1961)
Honolulu Biological Laboratory, 20 p., typescript
Larvae of the black marlin (*Eumakaira nigra* Nakamura)
En 60-7903.

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- Anon.** (1960)
E. Afr. Tr. Industr., 7 (79) : 43, 45
Emphasis on water, rail development in S.W. Africa

TA 16 (2) i330. Abnormal weather conditions in recent years with long periods of drought have accelerated the necessity to develop water resources, construct new dams and irrigation systems and sink more boreholes. Data on fisheries and fish processing.

- M
61-05769
- Salazar, F. M.** (1960)
Agricultor venezol., 24 (218) : 18-21
Laboratorio de biología pesquera (Laboratory of marine biology)

TA 16 (2) i510. President of Venezuela inaugurated on 28 May 1960 at Caigüire (Sucre) the new laboratory of the Ministry of Agriculture. Its task is to conduct research on fish resources, as a basis for their rational exploitation. Details of research programme.

- MF
61-05770
- Lanyon, W. E. & W. N. Tavalga** (Ed.) (1960)
Washington, D.C., American Institute of Biological Sciences, Publ. No. 7, 443 p.
Animal sounds and communication

Contains 61-05771 and 61-05772. Proceedings of Symposium held at AIBS meetings in 1958. Incl. papers on techniques in recording sound for bio-acoustic studies, and sound production in fishes. Incl. with the volume a standard 12 inch LP record which ill. principles discussed.

- G
61-05771
- Kellogg, P. P.** (1960)
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Considerations and techniques in recording sound for bio-acoustics studies

Deals with equipment and field techniques in recording, editing recorded tapes, cataloguing and storing recorded materials and maintenance of equipment.

- MF
61-05772
- Tavalga, W. N.** (1960)
In 61-05770 : 93-136
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 Redescribes some hitherto briefly diagnosed gobiid fishes from the tropical western Atlantic. A key to the spp. of *Lythrypnus* is given. Issued also as: *Contr. Mar. Lab. Univ. Miami*, (270).
- M
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- Hutton, R. F. & F. Sogandares-Bernal** (1960)*
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- Mills, D. H.** (1960)*
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- Argentina. Laws, Statutes, etc.** (1960)
Bol. ofc., Argentina, (19.319) : 1-2
 Decreto No. 9972 por el cual se actualizan los derechos y tasas establecidos por el decreto 15.501/53 sobre caza y protección de la fauna y por decreto 125.258/38 reglamentario de la caza de ballenas (Decree No. 9972, bringing up to date the fees and taxes established by decree No. 15.501/53 on hunting and wildlife protection and by decree No. 125.258/38 regulating whale hunting)—24 August 1960
- M
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- Argentina. Laws, Statutes, etc.** (1960)
Bol. ofc., Argentina, (19.322) : 7
 Decretos Nos. 10.033 y 10.034 dictando normas de protección a la industria naval nacional (Decrees Nos. 10.033 and 10.034, prescribing measures for the protection of the national shipbuilding industry)—26 August 1960
 Decree No. 10.034 in particular appropriates funds for fishing craft construction subsidies.

Australia. Laws, Statutes, etc. (1960) MF
61-05779
Stat. Rules, Aust., (37) : 1 p.

Regulation under the customs act 1901-1959 and the commerce (trade descriptions) act 1905-1950. Amendment of the exports (fish) regulations.—3 June 1960

Minor amendment of figures.

New South Wales. Laws, Statutes, etc. (1960) MF
61-05780
Govt Gaz., N.S.W., (105) : 2842

Proclamation made under the fisheries and oyster farms act, 1935, as amended, relating to the waters of Lakes Macquarie and Eraring, Mannering Hole, Duck Hole Lagoon, Little Lake and Muddy Lake—County of Northumberland.—17 August 1960

Prohibits the taking of fish by means of nets of every description other than the prescribed dip or scoop net and the 20 foot hand hauled net, in the specified tidal waters, from 1 Sep. 1960 to 31 Aug. 1963.

New South Wales. Laws, Statutes, etc. (1960) MF
61-05781
Govt Gaz., N.S.W., (105) : 2842-3

Proclamation made under the fisheries and oyster farms act, 1935, as amended, relating to a portion of the waters of Byron Bay, County of Rous.—17 August 1960

Prohibits the taking of fish by means of nets of every description, in the specified tidal waters, from 1 Sep. 1960 to 31 Aug. 1965. Exception is made for the capture of mullet and tailer.

New South Wales. Laws, Statutes, etc. (1960) F
61-05782
Govt Gaz., N.S.W., (111) : 2931-2

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lake Victoria, Rufus River and Frenchman's Creek, in the County of Tara.—24 August 1960

Prohibits the taking of fish by the methods set forth in schedules A to D in the specified inland waters from 1 Sep. 1960 to 31 Aug. 1965.

New South Wales. Laws, Statutes, etc. (1960) F
61-05783
Govt Gaz., N.S.W., (114) : 2992

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Namoi River, Counties of Nandewar, White, Denham, Baradine, Jamison, Darling, Inglis, Pottinger, Buckland, Parry and Vernon.—31 August 1960

Prohibits the taking of fish by all methods other than a single rod and line or handline in the specified inland waters from 1 Sep. 1960 to 31 Aug. 1965.

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F

New South Wales. Laws, Statutes, etc. (1960) 61-05784
Govt Gaz., N.S.W., (116) : 3072

Proclamation under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Richmond River, Counties of Richmond and Rous.—7 September 1960

Prohibits the taking of fish by means of nets of every description in the specified inland waters from 1 Dec. in each of the years 1960, 1961, 1962, 1963 and 1964, until 31 Mar. in each of the following years, all dates incl.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05785
Govt Gaz., N.S.W., (116) : 3072

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lachlan River at Jemalong Weir, in the Counties of Forbes and Cunningham.—7 September 1960

Prohibits the taking of fish by all methods in the specified inland waters, from 1 Jan. 1961 to 31 Dec. 1965.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05786
Govt Gaz., N.S.W., (116) : 3072-3

Proclamation made under the fisheries and oyster farms act, 1935-1960, relative to the waters of the Lachlan River at Kiacatoo and Booberoi Weirs, in the Counties of Cunningham, Gipps, Blaxland and Dowling.—14 September 1960

Prohibits the taking of fish by all methods in the inland waters specified in schedules A and B, from 1 Jan. 1961 to 31 Dec. 1965.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05787
Govt Gaz., N.S.W., (116) : 3073

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to a portion of the waters of Lachlan River, in the Counties of Cunningham, Gipps, Dowling and Blaxland.—14 September 1960

Prohibits the taking of fish by all methods in the portion of inland waters specified in schedules A from 1 Jan. 1961 to 31 Dec. 1965, and by certain methods in the portion of inland waters specified in schedule B during the same period.

F

New South Wales. Laws, Statutes, etc. (1960) 61-05788
Govt Gaz., N.S.W., (121) : 3247

Proclamation made under the fisheries and oyster farms act, 1935-1960, relating to the waters of Lake Macquarie entrance, County of Northumberland.—28 September 1960

Prohibits in the specified tidal waters the taking of fish by means of spears, spearguns, and similar devices, from 1 Oct. 1930 to 30 Sep. 1965.

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F

New South Wales. Laws, Statutes, etc. (1960)

61-05789

Govt Gaz., N.S.W., (121) : 3248

Proclamation made under the fisheries and oyster farms act, 1935-1960.—
28 September 1960

Prohibits the taking of fish by the methods of fishing set forth in the
schedules, in the specified inland waters, from 1 Dec. 1960 to 30 Nov. 1965.

M

New South Wales. Laws, Statutes, etc. (1960)

61-05790

Govt Gaz., N.S.W., (121) : 3248

Proclamation made under the fisheries and oyster farms act, 1935-1960,
relating to the waters of the Inner Harbour of Port Kembla, County of
Camden.—28 September 1960

Prohibits the taking of fish by all methods, in the specified tidal waters,
from 1 Oct. 1960 to 30 Sep. 1965.

M

New South Wales. Laws, Statutes, etc. (1960)

61-05791

Govt Gaz., N.S.W., (124) : 3308

Proclamation made under the fisheries and oyster farms act, 1935-1960,
relating to the waters of Lady Robinson's Beach, County of Cumberland.
28 September 1960

Prohibits in the specified tidal waters, the taking of prawns by means of
certain prawn nets, from 1 May to 30 Nov. in each of the years 1961-1965.

MF

New South Wales. Laws, Statutes, etc. (1960)

61-05792

Govt Gaz., N.S.W., (124) : 3308

Proclamation made under the fisheries and oyster farms act, 1935-1960,
relating to the waters of Nambucca River and Warrell Creek, County of
Raleigh.—28 September 1960

Prohibits the taking of fish, in the specified tidal and inland waters, by
nets of every description other than certain prawn nets, from 12 noon on
Friday to 12 noon on Sunday in each week from 1 Feb. 1961 to 31 Jan. 1966.

F

New South Wales. Laws, Statutes, etc. (1960)

61-05793

Govt Gaz., N.S.W., (124) : 3308

Proclamation made under the fisheries and oyster farms act, 1935-1960,
relating to the waters of Hastings River, County of Macquarie.—28 September
1960

Prohibits the taking of fish by means of nets of every description, in the
specified waters, from 23 Feb. 1961 to 22 Feb. 1966.

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F
61-05794

South Australia. Laws, Statutes, etc. (1960)
S. Aust. Govt Gaz., (40) : 845
 Fisheries act, 1917-1957: crayfish—variation of proclamations.—29 September 1960

Minor amendments to the proclamations published in *Govt Gaz.* of 11 Mar. 1937, 8 Aug. 1957, and 11 Sep. 1947.

MF
61-05795

Tasmania. Laws, Statutes, etc. (1959)
 Act No. 16, 39 p.
 Fisheries act, 1959: an act to consolidate and amend the law relating to fisheries.—21 August 1959

Extensive regulations affecting sea fisheries, salmon and freshwater fisheries, water pollution, controlling bodies, etc. Repeals: fisheries act 1935 (26 Geo. V No. 37); fisheries act, 1958 (No. 10 of 1958); fisheries act (No. 2), 1958 (No. 54 of 1958).

MF
61-05796

Tasmania. Laws, Statutes, etc. (1959)
 Act No. 61, 2 p.
 Fisheries act (No. 2), 1959: an act to amend the fisheries act 1959.—9 December 1959

Ad 61-05795. Short amendment relating to interpretation, wording and transitory provisions of sections 2, 3 and 4.

F
61-05797

Tasmania. Laws, Statutes, etc. (1960)
Stat. Rules, Tasm., (119) : 12 p.
 Inland fisheries regulations, 1960, made under the fisheries act, 1959

Extensive regulations relative to entitlements and authorized methods of fishing, licences, prohibitions, penalties, etc. Rescinds: statutory rules No. 103 of 1956, No. 91 of 1957, No. 116 and No. 130 of 1958, and No. 110 of 1959.

F
61-05798

Austria. Laws, Statutes, etc. (1960)
BundGesBlatt Rep. Österreich, 57 St., text 198 : 2001-9
 Verordnung des Bundesministeriums für Finanzen vom 5. Oktober 1960, mit der die Gegenstände bestimmt werden, für die eine Ausgleichsteuer nicht eingehoben wird (Freiliste 1) (Ordinance of the Federal Ministry of Finance establishing the commodities not subject to compensation tax (free list 1).—5 October 1960)

The list specifies various agricultural and animal products, incl. fish.

M

61-05799

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (15) : 1043

Statutory orders and regulations 1960-351. Clam fishing order made pursuant to the New Brunswick fishery regulations under the fisheries act.—15 July 1960

No one shall fish for, take or possess clams in the shellfish areas along the coast and waters of the County of Charlotte and the islands adjacent thereto, for the purpose of bait, food or for canning.

M

61-05800

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (15) : 1078

Décrets, ordonnances et règlements statutaires 1960-351. Avis concernant la pêche aux clams, en vertu du règlement de pêche du Nouveau-Brunswick selon la loi sur les pêcheries.—15 juillet 1960 (Statutory orders and regulations 1960-351. Clam fishing order made pursuant to the New Brunswick fishery regulations under the fisheries act.—15 July 1960)

Fr 61-05799.

M

61-05801

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (15) : 1016

SOR/60-335. Order in council P.C. 1960-991 amending the lobster fishery regulations made pursuant to the fisheries act.—21 July 1960

Gives a new description of lobster fishery district No. 8.

M

61-05802

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (15) : 1051

DORS/60-335. Décret C.P. 1960-991 modifiant le règlement de pêche du homard en vertu de la loi sur les pêcheries.—21 juillet 1960 (SOR/60-335. Order in council P.C. 1960-991 amending the lobster fishery regulations made pursuant to the fisheries act.—21 July 1960)

Fr 61-05801.

MF

61-05803

Canada. Laws, Statutes, etc. (1960)*Can. Gazette (II)*, (15) : 1021

SOR/60-339. Order in council P.C. 1960-1021 amending the British Columbia fishery regulations, made pursuant to the fisheries act.—28 July 1960

For the year 1960 only, salmon may be fished for, caught or killed by means of nets after the 15th day of September in that portion of the Fraser River between New Westminster Bridge and Mission Bridge.

REFERENCES

MF
61-05804

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (15) : 1056

DORS/60-339. Décret C.P. 1960-1021 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—28 juillet 1960 (SOR/60-339. Order in council P.C. 1960-1021 amending the British Columbia fishery regulations, made pursuant to the fisheries act.—28 July 1960)

Fr 61-05803.

MF
61-05805

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (16) : 1081

SOR/60-363. Order in council P.C. 1960-1056 amending the British Columbia fishery regulations made under the fisheries act.—4 August 1960

The amendments relate to crab, herring and salmon fishing, size of trawl-nets, sport fishing in tidal waters, and to the description of various fishing areas.

MF
61-05806

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (16) : 1117

DORS/60-363. Décret C.P. 1960-1056 modifiant le règlement de pêche de la Colombie-Britannique en vertu de la loi sur les pêcheries.—4 août 1960 (SOR/60-363. Order in council P.C. 1960-1056 amending the British Columbia fishery regulations made under the fisheries act.—4 August 1960)

Fr 61-05805.

MF
61-05807

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (16) : 1164

SOR/60-373. Order in Council P.C. 1960-1091 amending the New Brunswick fishery regulations, made pursuant to the fisheries act.—11 August 1960

New regulation on fishing with a mechanical digger.

MF
61-05808

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (16) : 1209

DORS/60-373. Décret C.P. 1960-1091 modifiant le règlement de pêche du Nouveau-Brunswick en vertu de la loi sur les pêcheries.—11 août 1960 (SOR/60-373. Order in council P.C. 1960-1091 amending the New Brunswick fishery regulations, made pursuant to the fisheries act.—11 August 1960)

Fr 61-05807.

MF
61-05809

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (16) : 1165

SOR/60-374. Order in council P.C. 1960-1092 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—11 August 1960

The amendments relate to fishing with a mechanical digger and to eel fishing in Queens County.

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Canada. Laws, Statutes, etc. (1960) MF
61-05810
Can. Gazette (II), (16) : 1210

DORS/60-374. Décret C.P. 1960-1092 modifiant le règlement de pêche de la Nouvelle-Écosse en vertu de la loi sur les pêcheries.—11 août 1960 (SOR/60-374. Order in council P.C. 1960-1092 amending the Nova Scotia fishery regulations pursuant to the fisheries act.—11 August 1960)

Fr 61-05809.

Canada. Laws, Statutes, etc. (1960) MF
61-05811
Can. Gazette (II), (16) : 1166

SOR/60-375. Order in council P.C. 1960-1093 amending the Prince Edward Island fishery regulations.—11 August 1960

New regulation on fishing with a mechanical digger.

Canada. Laws, Statutes, etc. (1960) MF
61-05812
Can. Gazette (II), (16) : 1211

DORS/60-375. Décret C.P. 1960-1093 modifiant le règlement de pêche de l'Île du Prince-Édouard, en vertu de la loi sur les pêcheries.—11 août 1960 (SOR/60-375. Order in council P.C. 1960-1093 amending the Prince Edward Island fishery regulations.—11 August 1960)

Fr 61-05811.

Canada. Laws, Statutes, etc. (1960) MF
61-05813
Can. Gazette (II), (17) : 1249

SOR/60-411. Shellfishing order pursuant to the Nova Scotia fishery regulations made under the fisheries act.—15 August 1960

Shellfish area N.S. 30, the Neck, in Nova Scotia, is closed; no person shall fish for, take or possess shellfish from the said area for the purpose of bait, food or for canning.

Canada. Laws, Statutes, etc. (1960) MF
61-05814
Can. Gazette (II), (17) : 1296

DORS/60-411. Avis relatif à la pêche aux coquillages en vertu du règlement de pêche de la Nouvelle-Écosse selon la loi sur les pêcheries.—15 août 1960 (SOR/60-411. Shellfishing order pursuant to the Nova Scotia fishery regulations made under the fisheries act.—15 August 1960)

Fr 61-05813.

Canada. Laws, Statutes, etc. (1960) MF
61-05815
Can. Gazette (II), (18) : 1263

SOR/60-424. Order in council P.C. 1960-1218 amending the New Brunswick fishery regulations, pursuant to the fisheries act.—8 September 1960

Replaces section 83 on fishing in the County of Northumberland.

REFERENCES

MF

Canada. Laws, Statutes, etc. (1960)

61-05816

Can. Gazette (II), (18) : 1311

DORS/60-424. Décret C.P. 1960-1218 modifiant le règlement de pêche du Nouveau-Brunswick, en vertu de la loi sur les pêcheries.—8 septembre 1960 (SOR/60-424. Order in council P.C. 1960-1218 amending the New Brunswick fishery regulations, pursuant to the fisheries act.—8 September 1960)

Fr 61-05815.

M

Canada. Laws, Statutes, etc. (1960)

61-05817

Can. Gazette (II), (18) : 1264

SOR/60-425. Order in council P.C. 1960-1219 amending the Quebec fishery regulations, pursuant to the fisheries act.—8 September 1960

The Minister of Fisheries may authorize the use in any area that he considers unworkable by hand-tools of any mechanical apparatus for fishing or taking soft-shell clams that in his opinion will not unduly decrease the number of clams in that area.

M

Canada. Laws, Statutes, etc. (1960).

61-05818

Can. Gazette (II), (18) : 1312

DORS/60-425. Décret C.P. 1960-1219 modifiant le règlement de pêche du Québec en vertu de la loi sur les pêcheries.—8 septembre 1960 (SOR/60-425. Order in council P.C. 1960-1219 amending the Quebec fishery regulations, pursuant to the fisheries act.—8 September 1960)

Fr 61-05817.

MF

Canada. Laws, Statutes, etc. (1960)

61-05819

Can. Gazette (II), (19) : 1304

SOR/60-448. Order in council P.C. 1960-1294, amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—22 September 1960

Revokes section 51 on salmon fishing in upper prospect district, County of Halifax.

MF

Canada. Laws, Statutes, etc. (1960)

61-05820

Can. Gazette (II), (19) : 1352

DORS/60-448. Décret C.P. 1960-1294 modifiant le règlement de pêche de la Nouvelle-Écosse, en vertu de la loi sur les pêcheries.—22 septembre 1960 (SOR/60-448. Order in council P.C. 1960-1294, amending the Nova Scotia fishery regulations, pursuant to the fisheries act.—22 September 1960)

Fr 61-05819.

M

Canada. Laws, Statutes, etc. (1960)

61-05821

Can. Gazette (II), (21) : 1402

SOR/60-498 setting apart the Malpeque Bay areas, P.E.I., for the propagation of fish pursuant to section 48 of the fisheries act.—14 October 1960

BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

M
61-05822

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1452

DORS/60-498 mettant à part les secteurs de la baie Malpèque (I.P.E.) pour la propagation du poisson, en vertu de l'article 48 de la loi sur les pêcheries.—14 octobre 1960 (SOR/60-498 setting apart the Malpeque Bay areas, P.E.I., for the propagation of fish pursuant to section 48 of the fisheries act.—14 October 1960)

Fr 61-05821.

M
61-05823

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1401

SOR/60-497. Shellfishing order pursuant to the New Brunswick fishery regulations, made under the fisheries act.—18 October 1960

Re-opening of certain shellfish areas for the taking of clams for the purpose of bait, food or canning.

M
61-05824

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1451

DORS/60-497 relatif à la pêche aux coquillages en vertu du règlement de pêche du Nouveau-Brunswick, selon la loi sur les pêcheries.—18 octobre 1960 (SOR/60-497. Shellfishing order pursuant to the New Brunswick fishery regulations, made under the fisheries act.—18 October 1960)

Fr 61-05823.

MF
61-05825

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1373

SOR/60-484. Order in council 1960-1437 amending the fish inspection regulations pursuant to the fish inspection act.—20 October 1960

Concerns the packing of oysters in the shell.

MF
61-05826

Canada. Laws, Statutes, etc. (1960)
Can. Gazette (II), (21) : 1423

DORS/60-484. Décret C.P. 1960-1437 modifiant le règlement sur l'inspection du poisson en vertu de la loi sur l'inspection du poisson.—20 octobre 1960 (SOR/60-484. Order in council 1960-1437 amending the fish inspection regulations pursuant to the fish inspection act.—20 October 1960)

Fr 61-05825.

M
61-05827

Canada. Laws, Statutes, etc. (1960)
Statutes, Canada, 8-9 Eliz. II, vol. 1, chapter 15 : 71

An act to repeal certain fisheries laws of Newfoundland.—27 May 1960

The fisheries laws of Newfoundland as defined in paragraph (1) of term 22 of the terms of union of Newfoundland with Canada and all orders, rules and regulations made thereunder, in force at the commencement of this act, are repealed.

REFERENCES

- MF
61-05828
- Manitoba. Laws, Statutes, etc. (1960)**
Statutes, Manitoba, 8-9 Eliz. II, chapter 15 : 75-7
 An act to amend the game and fisheries act.—26 March 1960
 Concerns offences and penalties.
- M
61-05829
- Ceylon. Laws, Statutes, etc. (1960)**
Ceylon Govt Gaz., extr., (12,220) : 1773
 Order made under section 4 (2) of the food supplies ordinance, No. 30 of 1947, as amended by food supplies (amendments) acts, No. 7 of 1955 and No. 30 of 1957.—2 October 1960
 Amends the schedule to the said ordinance, by the addition of "Maldivé" fish, bonito dried fish and any other similar variety and/or preparation of fish.
- MF
61-05830
- Denmark. Laws, Statutes, etc. (1960)**
Lovtidende B, (1) : 270 p.
 Finanslov for finansåret fra 1. april 1960 til 31. marts 1961.—31 marts 1960 (Finance act No. 1 for the financial year from 1 April 1960 to 31 March 1961.—31 March 1960)
 Specifies *inter alia* under section 12 allocations for various activities in fisheries.
- F
61-05831
- Denmark. Laws, Statutes, etc. (1960)**
Lovtidende A, (23) : 1127
 Anordning Nr. 274 om udlændinges adgang til at drive lystfiskeri på dansk søterritorium. (Ordinance No. 274 relative to facilities for aliens to conduct sport fishing in Danish lake waters.—29 June 1960)
 With the exception of citizens of Scandinavian countries, aliens must have written permission from the local fisheries control station.
- M
61-05832
- France. Laws, Statutes, etc. (1960)**
J. off. Rép. franç., (157) : 6216
 Arrêté du 27 juin 1960 relatif au conseil de l'importation des produits de la pêche maritime (Order relating to the council of imports of sea fisheries products.—27 June 1960)
 Members of the council to hold office for three years.
- M
61-05833
- France. Laws, Statutes, etc. (1960)**
J. off. Rép. franç., (168) : 6679
 Arrêté du 8 juillet 1960 portant réglementation de l'emploi des filets tournants et coulissants dénommés "seincholes" dans les eaux de la direction de l'inscription maritime de Marseille (Order regulating the use of swivel and slide nets known as "seincholes" in the waters under the jurisdiction of the directorate of the maritime region of Marseille.—8 July 1960)

M

Guadeloupe. Laws, Statutes, etc. (1960)

61-05834

Rec. Actes adm., Guadeloupe, (42) : 565-6

Arrêté n° 60-1.827 portant application en Guadeloupe du statut du mareyage.—15 octobre 1960 (Order No. 60-1.827 relative to the application in Guadeloupe of the regulations governing the exercise of the fish trade.—15 October 1960)

Definition and extensive regulations relating to the profession of fish-mongers.

M

Greece. Laws, Statutes, etc. (1960)

61-05835

Ephem. Kub., Greece, 1 (46) : 512

(Decision No. 647/60 of the credit commission relating to the financing of salting enterprises.—26 March 1960). *He*

Relates in particular to credits for enterprises salting domestic and imported fish during certain periods.

M

Greece. Laws, Statutes, etc. (1960)

61-05836

Ephem. Kub., Greece, 1 (90) : 872

(Royal decree No. 409, relating to the preparation and classification of salted sardines and anchovies for local consumption and export.—11 June 1960). *He*

MG

Guatemala. Laws, Statutes, etc. (1960)

61-05837

Guatemalteco, (62) : 777-8

Acuerdo por el que se autoriza el ingreso al país, de toda clase de impuestos arancelarios u otros tributos, de los artículos y productos originarios de Belice (Executive order authorizing entry into the country, free of customs duties and charges of any kind, of articles and products originating in Belice.—2 August 1960)

MG

Guatemala. Laws, Statutes, etc. (1960)

61-05838

Guatemalteco, (62) : 778

Acuerdo por el que quedan libres de derechos arancelarios y de cualquier gravamen a la importación los productos originarios de Belice que se clasifican en las fracciones arancelarias que se mencionan (Executive order, freeing from customs duties and any other import charge imports of products originating in Belice classified in stated sections of the customs tariff.—2 August 1960)

Inc. fish and fish products, crustaceans and molluscs.

MF

Iraq. Laws, Statutes, etc. (1960)

61-05839

Wkly Gaz. Rep. Iraq, (39) : 861-4

Government notification No. 641 : law No. 30 of 1960, on the ratification of the trade agreement and related letters between the Iraqi Republic and the Tunisian Republic.—14 February 1960

Imports incl. fish.

REFERENCES

- MF
61-05840
- Ireland. Laws, Statutes, etc. (1960)**
Iris Oifigiúil, (38) : 522
 Ballyshannon district bye-law No. 503, 1960, made under the fisheries (consolidation) act, 1959.—6 May 1960

Prohibits fishing for salmon or trout with any fishing engine other than rod and line in the tidal waters of the River Erne.

- MF
61-05841
- Madagascar. Laws, Statutes, etc. (1960)**
J. off. Rep. malgache, (127) : 2066-9

Ordonnance No. 60-126 du 3 octobre 1960, fixant le régime de la chasse, de la pêche et de la protection de la faune (Ordinance No. 60-126, fixing regulations for hunting, fishing and wildlife protection.—3 October 1960)

Extensive regulations. Title II concerns fishing in fresh and saline waters.

- MF
61-05842
- Morocco. Laws, Statutes, etc. (1960)**
Bull. off. Emp. chérif., (2506) : 1901, 1922

Arrêté du ministre du travail et des questions sociales n° 742-60 du 4 août 1960 fixant le taux de base des salaires pour le calcul des rentes du personnel de la pêche rémunéré à la part, victime d'un accident de travail (Order No. 742-60 fixing base salary rates for the computation of the rent due to fishing personnel remunerated on a share basis and victim of a work accident.—4 August 1960)

- MF
61-05843
- Madagascar. Laws, Statutes, etc. (1960)**
J. off. Rep. malgache, (127) : 2072-5

Ordonnance No. 60-128 du 3 octobre 1960, fixant la procédure applicable à la répression des infractions à la législation forestière, de la chasse, de la pêche et de la protection de la nature (Ordinance No. 60-128 fixing the procedure applicable for the suppression of infractions of the hunting, fishing and protection of nature legislation.—October 1960)

Extensive regulations.

- MF
61-05844
- Madagascar. Laws, Statutes, etc. (1960)**
J. off. Rep. malgache, (130) : 2321-2

Arrêté No. 1794 du 22 octobre 1960, fixant les conditions dans lesquelles sont accordées les autorisations d'établissements de pêcheries et parcs à huitres, à moules et autres coquillages (Order No. 1794, fixing conditions governing the granting of authorizations for the establishment of fishing grounds, oyster, mussel and other shellfish beds.—22 October 1960)

Sets up regional commissions.

M

Morocco. Laws, Statutes, etc. (1960)

61-05845

Bull. off. Emp. chérif., (2492) : 1468-9, 1503

Arrêté du ministre de l'économie nationale et des finances n° 668-60 du 13 juillet 1960 fixant pour la campagne 1960-1961 les conditions d'application du dahir du 8 janvier 1957 conférant la garantie partielle de l'État aux avances bancaires consenties sur les conserves de sardines (Ministerial order No. 668-60 fixing for the 1960-1961 season the conditions of application of the dahir of 8 January 1957 granting partial State guarantee to bank advances on canned sardines.—13 July 1960)

MF

Morocco. Laws, Statutes, etc. (1960)

61-05846

Bull. off. Emp. chérif., (2492) : 1452-9, 1487-94

Dahir n° 1-60-092 du 21 juillet 1960 portant réglementation de la taxe sur les transactions. (Dahir No. 1-60-092 prescribing regulations for the transaction tax.—21 July 1960)

Imposes various fisheries products and equipment with the said tax.

MF

Morocco. Laws, Statutes, etc. (1960)

61-05847

Bull. off. Emp. chérif., (2492) : 1460-3, 1495-9

Arrêté du ministre de l'économie nationale et des finances n° 416-60 du 21 juillet 1960 relatif à l'application de certaines dispositions du dahir n° 1-60-092 du 21 juillet 1960 portant réglementation de la taxe sur les transactions (Order No. 416-60 relative to the application of certain provision of dahir No. 1-60-092 of 21 July 1960 prescribing regulations for the transactions tax.—21 July 1960)

Ad 61-05846. Affects *inter alia* fishing nets.

F

Netherlands. Laws, Statutes, etc. (1960)

61-05848

Staatscourant, Neth., (37) : 7

Ontheffing gesloten tijd voor zeelt 19 februari 1960/nr. Vi. 361/Directie van de Visserijen (Order No. Vi. 361/Directie v.d. Visserijen issued by the Minister of Agriculture and Fisheries specifying exemption from the closed season for fisheries in respect of tench.—19 February 1960)

MF

Netherlands. Laws, Statutes, etc. (1960)

61-05849

Staatsblad, Neth., text 238 : 719-23

Besluit van 3 juni 1960, houdende instelling van een bedrijfsschap voor de visconservenindustrie (Instellingsbesluit bedrijfsschap visconservenindustrie) (Decree establishing a corporative association for the canned fish industry.—3 June 1960)

The decree is accompanied by an explanatory note, a notice of the economic and social council, and other annexes.

REFERENCES

MF
61-05850

Netherlands. Laws, Statutes, etc. (1960)
Staatscourant, Neth., (111) : 7

Ottrekking Gedeelte Waddenzee aan de Openbare Visserij 9 juni 1960/Nr. Vi. 2109/Directie van de Visserijen (Order No. Vi. 2109/Directie v.d. Visserijen issued by the Minister of Agriculture and Fisheries closing off a part of the Waddenzee to public fishing)

The above measure is taken in order to provide for shellfish breeding in the area which is located on the outer gulf of the Zuiderzee.

M
61-05851

New Zealand. Laws, Statutes, etc. (1959)
6 p. (separate)

Fisheries amendment act 1959 : act No. 8 of 1959 to amend the fisheries act 1908.—24 September 1959

Amendments relate to destruction of aged, sick or troublesome seals and to licensing of fishermen.

F
61-05852

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/170, 2 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Hawera, Stratford, and Taranaki districts.—14 October 1959

Modifies the provisions of the general regulations in the above districts, by reducing the limit bag, increasing the size limit, imposing restrictions on lures and methods of fishing in certain waters, and prohibiting fishing in the Egmont National Park except in specified waters.

MF
61-05853

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/167, 3 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Marlborough and Nelson districts.—14 October 1959

Modifies the provisions of the general regulations for the above districts by reducing the number of salmon and trout in a limit bag to ten, by increasing the size limit to 12 inches, except in the Maitai River where it is increased to 10 inches, by imposing restrictions on lures and methods in specified waters and by prohibiting fishing in Lake Daniells during the month of October.

F
61-05854

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/168, 2 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Bay of Islands, Hobson, Mangonui-Whangaroa, and Whangarei districts.—14 October 1959

Modifies the provisions of the general regulations for the subject districts by modifying the limit bag and size limit and imposing restrictions on lures and methods of fishing in specified waters.

F
61-05855

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/169, 2 p.

Modification notice 1959 to amend the freshwater fisheries regulations 1951 (under the fisheries act 1908) with respect to Waimarino district.—14 October 1959

Modifies the provisions of the general regulations in the above district by restricting the lures and methods that may be used in certain waters.

F
61-05856

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/186, 9 p.

Amendment No. 5 to the fisheries (general) regulations 1950, pursuant to the fisheries act 1908.—25 November 1959

Amends certain definitions, and several provisions relating to crayfish.

F
61-05857

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/206, 16 p.

The Rotoaira trout fishing regulations 1959, pursuant to Part 1 of the Maori purpose act 1959.—16 December 1959

These regulations incl. provisions relating to the issue of entry permits, the restrictions on the times and methods of fishing, pollution of waters, possession of and dealing in trout, storage of trout in freezing chambers, canning, smokehouses, etc.

F
61-05858

New Zealand. Laws, Statutes, etc. (1959)
Separate 1959/207, 2 p.

Amendment No. 9 to the Taupo trout fishing regulations 1950, made under the fisheries act 1908.—16 December 1959

The amendment is consequential on the provisions of the Rotoaira trout fishing regulations 1959 authorizing fishing in the lake and stream to holders of Taupo trout-fishing licences who are also holders of entry permits under those regulations.

M
61-05859

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., Sect. 2, 1 : 9

Kongelig resolusjon om endr. § 1 i vedtektene for Statens garantifond for fiskere og fangstfold på prosentvilkår, fastsatt ved kgl. resolusjon 18. desember 1953 (Royal resolution amending art. 1 of the provisions of the State guarantee fund for fisherfolk, whalers, etc., on a percentage basis, as established by royal resolution of 18 December 1953.—16 January 1959)

The amended article specifies that in certain cases the administration of the fund may, subject to the consent of the Ministry, continue to make direct advances on guaranteed minimum batches.

REFERENCES

M
61-05860

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (7) : 226-7.

Kongelig resolusjon om bestemmelser for fisket med snurpenot i Vikna, Nord-Trøndelag (Resolution specifying regulations governing pursenet fishing in Vikna, Nord-Trøndelag.—30 January 1959)

Pursuant to art. 4 of the salt water fisheries act of 17 Jun. 1955, such fishing may be carried out only at certain times of the day, and in some places is prohibited altogether, during the period of fisheries control operations. Comes into force immediately.

M
61-05861

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (7) : 227

Kongelig resolusjon om forbud mot fiske med notredskaper etter skrei i Lofoten (Resolution prohibiting cod-fishing with nets in Lofoten.—30 January 1959)

Pursuant to art. 4 of the salt water fisheries act of 17 Jun. 1955 the above fishing is prohibited during 1959 and 1960 except for scientific and experimental fisheries operations. Comes into force immediately.

MF
61-05862

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (17) : 604

Kongelig resolusjon om forbud mot bruk av drivgarn og kastenot i Orkla elv. (Resolution prohibiting the use of drift-nets and casting nets in the Orkla River.—10 April 1959)

The use of the above gear is prohibited along the whole distance of the river where salmon are to be found. Comes into force on 15 Apr. 1959 until further notice but not beyond the end of 1963.

M
61-05863

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (19) : 630-1

Lov Nr. 5 om endr. i lov av 14. desember 1951 (nr. 3) om omsetning av råfisk (Act No. 5, amending the act (No. 3) of 14 December 1951, relative to the sale of raw fish.—29 April 1959)

Amends arts. 2, para. 2 and 2, para. 1 regarding the Crown's discretion to make the act applicable to "small whale" or parts thereof, and restrictions on sale of raw fish except through a recognized fishermen's sales organization.

M
61-05864

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (19) : 633-4

Kongelig resolusjon om lovbeskyttelse for småkvalfangernes salslag A/L (Resolution relative to the legal protection of the small-whale fishermen's sales association.—29 April 1959)

Pursuant to art. 2 of the act relative to raw fish sales of 14 Dec. 1951, trade in "small whale" may be conducted only through the above association unless such association otherwise permits. Comes into force from date appointed by the Ministry of Fisheries.

F

Norway. Laws, Statutes, etc. (1959)

61-05865

Norsk Lovtid., (20) : 646-7

Fiskeregler for Stor-Elvdal herred, Hedmark fylke (Fishing regulations relative to Stor-Elvdal district, province of Hedmark.—30 April 1959)

The regulations are issued pursuant to the act of 2 Jun. 1933 for the protection of freshwater fish, and prohibit all fishing, except angling, inside and outside Glomma, between 15 Sep. and 20 May and inside Glomma from 15 Sep. to 30 Oct. These regulations do not apply to perch. The types of fishing gear prohibited at all times in this area, subject to certain exceptions, are listed in the text. Comes into force on 10 May 1959.

F

Norway. Laws, Statutes, etc. (1959)

61-05866

Norsk Lovtid., (20) : 647

Fiskeregler for Tessevatn med osar og elvar, Smådøla undanteke, i Lom herad, Oppland fylke (Fishing regulations for Tessevatn including all rivers except Smådøla in the district of Lom, province of Oppland.—30 April 1959)

The regulations are issued pursuant to the act of 2 Jun. 1933 for the protection of freshwater fish and prohibit all fishing from 1 Sep. to 31 Oct. incl., and from the time such waters freeze until the spring thaw. Types of fishing gear prohibited, e.g. nets of smaller mesh than permissible, other than seines, rods and trawls, are listed in the text. Comes into force on 10 May 1959.

F

Norway. Laws, Statutes, etc. (1959)

61-05867

Norsk Lovtid., (20) : 648-9

Fiskeregler for Kvalsund herred, Finnmark fylke (Fishing regulations for Kvalsund district, Finnmark province. 30 April 1959)

The regulations are issued pursuant to the act of 2 Jun. 1933 for the protection of freshwater fish. As regards the area of the district outside Kvaløj all fishing is prohibited from 10 Sep. until 15 Oct. incl., except for mountain waters, and river and brook fishing from 1 Sep. until 31 Mar. excl. when rod fishing is allowed. Inside Kvaløj all fishing is prohibited from 10 Sep. until 10 Oct. incl. Types of fishing gear prohibited are listed in the text. Comes into force on 10 May 1959.

M

Norway. Laws, Statutes, etc. (1959)

61-05868

Norsk Lovtid., (21) : 666

Skriv om ikraftsetting av resolusjoner om enerett for Norges Råfisklag og Småkvallfangernes Salslag A/L til omsetning av småkval (Notice from the Ministry of Fisheries establishing the date of the coming into force of Royal Resolution of 29 April 1959 relative to the exclusive right of the Norwegian raw fish association and small whale fishers' association S/L to sell small whale.—16 May 1959)

Shall come into force on 1 Jun. 1959.

REFERENCES

MF
61-05869

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (24) : 742

Kongelig resolusjon om forbud mot fiske ved laksetrappene i Tømmeråsfossen i Grong (Resolution prohibiting fishing in the salmon-fishing preserves at Tømmeråsfossen cataract in Grong district, Nord-Trøndelag province.—5 June 1959)

Describes the precise location of the salmon-fishing preserves.

M
61-05870

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (26) : 845

Kongelig resolusjon om endr. i res. av 22 desember 1955 om bestemmelser om saltvannsfiskeriene (Resolution amending the resolution of 22 December 1955 relative to regulations governing salt-water fisheries.—19 June 1959)

Amends art. 11, para. 3 of the earlier act and specifies that nets of smaller mesh than that specified in items (1) and (2) (*loc. cit.*), may be used aboard vessels fishing for mackerel, herring, smelt crustaceans, eel, etc., but fish below minimum permitted size exceeding 10% of the total catch must be returned to the sea south of 61° N. latitude. Comes into force immediately.

M
61-05871

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., (27) : 882

Kongelig resolusjon om endr. i lovbeskyttelsen for skagerafisk S/L, fjordfisk S/L og sild- og brislingsalslaget (Resolution relative to amendment of the act for the protection of skagerak-fish S/L, fjordfish S/L and the herring and brisling sales association.—27 June 1959)

The executive rights for the sale of raw fish by the above companies under an earlier resolution of 16 Dec. 1955 shall not apply to sales of herring, 16.5 cm or less, in size.

M
61-05872

Norway. Laws, Statutes, etc. (1959)
Norsk Lovtid., Sect. 2, 3 : 365-6

Kongelig res. med hjemmel i lov av 5. juni 1953 om avgift på klippfisk til fordel for fellesreklame og propaganda for klippfisknaeringen (Resolution amending, pursuant to the act of 5 June 1953 relative to tax on klip-fish for purposes of advertising and publicity for the klip-fish industry, art. of the instruction relative to the committee for the klip-fish industry advertising fund of 17 July 1953.—10 July 1959)

The amended article refers to allowances for unpaid members of the committee aforesaid.

MF

Norway. Laws, Statutes, etc. (1959)

61-05873

Norsk Lovtid., Sect. 2, 3 : 387

Regjeringens resolusjon om endr. av res. av 8. juni 1956 om salg til utlandet av medisintran m.v. (Government resolution amending, pursuant to the act governing the regulation and control of production, sale and export of fish and fisheries products, Sec. 4 of the resolution of 8 June 1956 on the same subject.—24 July 1959)

The amended Sect. 4 empowers the Ministry of Fisheries to issue further provisions regarding implementation of such regulation as referred to in Sect. 2 and 3 and regarding compulsory delivery and quota distribution of goods specified in Sect. 2.

M

Norway. Laws, Statutes, etc. (1959)

61-05874

Norsk Lovtid., Sect. 2, 4 : 428

Kongelig resolusjon : i medhold av § 4 i lov av 17. juni 1959 om saltvannsfiskeriene, etc. (Royal resolution issued pursuant to art. 4 of the salt water fisheries act of 17 June 1955.—16 October 1959)

The resolution prescribes that minimum dimension of sea crayfish, *Nephrops norvegicus*, as established by the resolution of 22 Dec. 1955, art. 3, item 17, shall be amended to 13 cm. Comes into force immediately.

M

Norway. Laws, Statutes, etc. (1960)

61-05875

Norsk Lovtid., Sect. 2, 1 : 9

Kongelig resolusjon : i medhold av § 4 i lov av 17. juni 1955 om saltvannsfiskeriene, etc. (Royal resolution prescribing, pursuant to art. 4 of the salt water fisheries act of 17 June 1955, that resolutions of 11 April 1958, 22 December 1955, 21 December 1956 and 17 January 1958, prohibiting the use (1) of shrimp trawl-nets at night in the provinces of Finnmark, Troms and Nordland; (2) of purse-nets in Kvanangenfjord, etc.; (3) in Brennvik at Leiranger, Nordland between 5 p.m. and 8 a.m.; and (4) at night in Valsfjorden, Röstkvervet, etc., respectively, shall be extended until 31 December 1963.—8 January 1960)

M

Norway. Laws, Statutes, etc. (1959)

61-05876

Norsk Lovtid., Sect. 2, 1 : 39

Kongelig resolusjon: i medhold av § 37 i lov av 25. juni 1937 om sildog brislingfiskeriene, endret ved lov av 17. april 1957 bestemm., etc. (Royal resolution specifying provisions pursuant to art. 37 of the herring and brisling fisheries act of 25 June 1937 as amended by the act of 17 April 1957.—22 January 1960)

Specifies provisions governing the use of trawl nets or other ocean fishing gear which when used in herring and brisling fisheries is drafted by one or more vessels and *inter alia* prohibiting any part of such gear from being drafted along the sea-bottom within Norwegian fishing waters.

REFERENCES

M
61-05877

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (7) : 170

Kongelig resolusjon om opphevelse av avgifter ved kontroll av fisk og fiskevarer (Resolution repealing taxes for inspection for fish and fisheries products.—19 February 1960)

Repeals provisions of earlier resolutions regarding taxes for quality control of medicinal codliver oil, fresh and frozen herring, klipfish, salt-fish, dried fish, etc. Comes into force on 15 Mar. 1960.

M
61-05878

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., Sect. 2, 1 : 123-4

Lov Nr. 5 om midlertidig tillegg til skattelovene for landet og for byene av 18. august 1911 (Act No. 5 relative to a temporary supplement to the tax acts for municipal and rural areas, of 18 August 1911.—26 February 1960)

Provides for certain tax deductions applicable to fisherfolk, etc., who have participated in fisheries in far northern waters, defined in the text. Comes into force immediately and applies to 1959, 1960 and 1961 tax assessments.

M
61-05879

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., Sect. 2, 1 : 124-5

Kongelig resolusjon om endr. i kronprinsregentens resolusjon av 16. desember 1955 vedrørende Norges makrellag S/L skal lyde (Royal resolution amending the resolution of 16 December 1955 relative to the Norwegian mackerel association S/L.—26 February 1960)

The amended version of the above earlier resolution prohibits the sale of mackerel or parts thereof, landed on the stretch of coast between the Swedish frontier and Stad, except through and with the approval of the above association. Repeals art. 2 of the earlier resolution aforesaid relative to certain other associations. Comes into force immediately.

M
61-05880

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (11) : 228

Skriv om setting av oppsynet under vårtorskefisket i Finnmark 1960 (Notice relative to the establishment of inspection control of spring cod fisheries in Finnmark in 1960.—14 March 1960)

Such control shall be established on 21 Mar. 1960.

M
61-05881

Norway. Laws, Statutes, etc. (1960)
Norsk Lovtid., (12) : 237-40

Lov Nr 1 om utlingning av tilleggsskatt til kommunene på større inntekter vedkommende inntektsåret 1959 og om plikt til å betale forskott på kommunal tilleggsskatt (Act No. 1 relative to the supplementary tax on higher incomes in the 1959 fiscal year, and to the obligation to pay local taxes in advance.—25 March 1960)

Specifies exemptions from the supplementary tax applicable, e.g. to building societies, as well as taxation facilities on behalf of fisheries associations, etc.

Norway. Laws, Statutes, etc. (1960)

MF

61-05882

Norsk Lovtid., (13) : 269

Kongelig resolusjon om forbud mot bruk av fiskereiskap naerare enn 200 m frå ymse reiskaper til fangst av laks og sjøaure i Ryfylke og Karmsund fiskeridistrikt (Royal resolution prohibiting the use of fishing tackle at a distance of less than 200 m from other fishing tackle for catching salmon and salmon-trout in the fisheries district of Ryfylke and Karmsund, province of Rogaland.—1 April 1960)

Does not apply to other fisheries—e.g. of herring, mackerel, etc. Comes into force on 15 Apr. 1960.

Norway. Laws, Statutes, etc. (1960)

M

61-05883

Norsk Lovtid., (14) : 271-2

Fiskeregler for Nore herred, Buskerud fylke (Fishing regulations in the district of Nore, province of Buskerud.—4 April 1960)

In the Tunhodfjord and Pålsuffjord all fishing is prohibited from 1 Oct. until 15 Dec. except for roe-fishing between 1 Oct. and 1 Nov., and only certain types of gear and tackle may be used. In other waters in the district, fishing is prohibited between 5 Oct. and 24 Oct. and fly-fishing between 1 Jul. and 20 Jul. Only certain types of gear and tackle may be used. Comes into force on 15 Apr. 1960 and repeals earlier regulations of the same kind.

Norway. Laws, Statutes, etc. (1960)

MF

61-05884

Norsk Lovtid., (14) : 275

Kongelig resolusjon om bemynd. for Fiskeridepartementet til å fastsette bestemmelser i medhold av ov om kvalitetskontroll med fisk og fiskevarer (Royal resolution authorizing the Ministry of Fisheries to establish regulations pursuant to the act on quality control of fish and fish products, of 28 May 1959.—8 April 1960)

Authorizes the Ministry to establish regulations pursuant to arts. 2, 3, 4 and 8 of the act and to amend or repeal those contained in art. 12, last para. of the act aforesaid, which act shall also apply to fresh caught fish. Comes into force immediately.

Norway. Laws, Statutes, etc. (1960)

MF

61-05885

Norsk Lovtid., (17) : 357-66

Forskrifter for behandling, tilvirking og transport av fisk som skal tilvirkes til saltfisk, klippfisk og tørrfisk (Regulations governing the handling, processing and transport of fish to be converted into salted fish, klipfish and stock fish.—30 April 1960)

The new regulations reproduce earlier regulations of 9 Mar. 1955, with certain amendments in respect of processing of unsplit fish, salted fish and klipfish.

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61-05886
- Norway. Laws, Statutes, etc. (1960)**
Norsk Lovtid., (17) : 368-70
 Bestem. om generelle krav til hermetikkfabrikker som søker opptakelse i Fiskeridirektørens register over norske hermetikkfabrikker (Regulations governing general requirements imposed on canning factories applying for inclusion in the Norwegian Canning Factories register of the Directorate of Fisheries.—6 May 1960)
- Specifies quality standards for mechanical equipment—cooling plant, rollers, etc.—factory premises, hygiene, staff qualifications, etc., for eligible candidates. Comes into force immediately.
- MF
61-05887
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5759) : 1
 Resolución suprema N° 121 sobre la tarifa para análisis de productos pesqueros (Supreme resolution No. 121: list of prices for analysis of fisheries products.—19 May 1960)
- Analysis carried out by the Fish and Game Division of the Ministry of Agriculture, under ministerial resolution No. 1502 of 21 Jun. 1956.
- MF
61-05888
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5765) : 2
 Decreto supremo estableciendo el reglamento del censo nacional para 1960 (Supreme decree establishing regulations for the 1960 national census.—1 July 1960)
- To incl. fisheries. Date to be announced subsequently.
- MF
61-05889
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5768) : 2
 Decreto supremo por el cual se encargará el Municipio de Lima de la distribución de los productos de pesca (Supreme decree declaring the Lima City Government responsible for the distribution of fisheries products.—8 July 1960)
- M
61-05890
- Peru. Laws, Statutes, etc. (1960)**
Peruano, (5778) : 1
 Decreto supremo N° 17 por el cual la Dirección General de Capitanías tendrá el control del terminal pesquero del Callao (Supreme decree No. 17 placing the Callao fishing terminal under control of the General Directorate of Ports.—20 July 1960)
- Lima fishing terminal to remain under Lima City Government control.
- MF
61-05891
- Philippines. Laws, Statutes, etc. (1960)**
Off. Gaz., Philippines, (37) : 5728-9
 Republic act No. 2633 authorizing the establishment of a brackish-water fish nursery station in the municipality of Leyte, Province of Leyte, and authorizing the appropriation of funds therefor.—18 June 1960
- Under the supervision of the Directorate of Fisheries.

MF

Philippines. Laws, Statutes, etc. (1960)

61-05892

Off. Gaz., Philippines, (37) : 5729

Republic act No. 2635, providing for the establishment of a school of fisheries in the Municipality of Dipolog, Province of Zamboanga del Norte, and authorizing the appropriation of funds therefor.—18 June 1960

Under the supervision and administration of the Director of the Bureau of Public Schools.

MF

Rhodesia-Nyasaland. Laws, Statutes, etc. (1960)

61-05893

Fed. Govt. Gaz., Rhodesia, Suppl. to (45) : 992-1006

Federal Government notice No. 285 of 1960 relative to the customs and excise (suspension) regulations, 1960, made under the customs and excise act, 1955 (no. 16)

Relating *inter alia* to fish, incl. fish pastes.

F

Spain. Laws, Statutes, etc. (1960)

61-05894

Bol. ofic. Estado, Spain, (168) : 9759

Orden por la que se crea una comisión técnico-administrativa para redactar un proyecto definitivo de eliminación o depuración de las aguas residuales que polucionan el río Urumea.—6 de julio de 1960 (Order creating a technical and administrative commission to draw up a final project for the elimination or purification of the waste waters polluting the Urumea River.—6 July 1960)

F

Spain. Laws, Statutes, etc. (1960)

61-05895

Bol. ofic. Estado, Spain, (194) : 11415-7

Orden por la que se dictan normas sobre aplicación de la vigente ley de pesca fluvial y reglamento de la misma, en relación con la alteración de las condiciones, biológicas, físicas o químicas de las masas de aguas continentales de sus cauces y riberas.—8 de agosto de 1960 (Order prescribing rules for the application of the river fishing act in force and of the regulations thereunder, as related to the alteration of the biological, physical or chemical conditions of bodies of inland water, riverbeds and rivers.—8 August 1960,)

Classifies waters in view of measures for prevention of pollution.

F

Spain. Laws, Statutes, etc. (1960)

61-05896

Bol. ofic. Estado, Spain, (201) : 11852

Orden por la que se amplía la representación del Ministerio de Agricultura en la comisión técnico-administrativa, encargada de redactar el proyecto definitivo de eliminación o depuración de las aguas residuales que polucionan el río Urumea.—12 de agosto de 1960 (Order increasing the representation of the Ministry of Agriculture on the technical and administrative commission charged with drawing up the final project for the elimination or purification of the waste waters polluting the Urumea River.—12 August 1960)

Ad 61-05894.

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- MF
61-05897
- Spain. Laws, Statutes, etc. (1960)**
Bol. ofic. Estado, Spain, (200) : 11805
 Orden por la que se aclara e interpreta el decreto de 12 de noviembre de 1959, que convalidó la exacción parafiscal "Bonificación a favor de la industria pesquera por consumo de carburantes".—13 de agosto de 1960 (Order classifying and explaining the decree of 12 November 1959, which revalidated the parafiscal assessment, "Surcharge for fishing industry fuel consumption".—13 August 1960)
 Surcharge to be incl. in the sale price to the State Fuel Monopoly, and not to be passed on to consumers.
- M
61-05898
- Sweden. Laws, Statutes, etc. (1960)**
Svensk FörfSamml., (532-534) : 1405-6
 Kungl. maj:ts kungörelse Nr 532 om vissa undantag från förbudet mot trålfiske (Royal order No. 532 relative to certain exceptions from the prohibition on trawling.—17 August 1960)
 Specifies various areas in which trawling is allowed.
- MF
61-05899
- Tunisia. Laws, Statutes, etc. (1960)**
J. off. tunis., (46) : 1277-80
 Décret n° 60-340 du 30 septembre 1960 portant publication du protocole additionnel à la convention commerciale et tarifaire entre le Gouvernement de la République Tunisienne et le Gouvernement de la République Française (Decree No. 60-340 publishing the additional protocol to the trade and tariff agreement concluded on 5 September 1959 between the Governments of the Tunisian and the French Republics.—30 September 1960)
 Incl., *inter alia*, fish, live and dead, frozen, canned, cured, etc.; crustaceans.
- MF
61-05900
- Turkey. Laws, Statutes, etc. (1960)**
Resmî Gaz., *Turkey*, (10483) : 1170
 Circular No. 9, issuing rules governing fishing
 Prohibited spp., etc., for period 15 Apr. 1960-15 Apr. 1961.
- F
61-05901
- Brock, E. M. (1960)**
Ecology, 41 (3) : 474-83
 Mutualism between the midge *Cricotopus* and the alga *Nostoc*
 Describes an association between *C. nostocicola* and *C. fuscatus* and *Nostoc parmeliodes* from Sagehen Creek, California.
- G
61-05902
- Pearson, O. P. (1960)**
Ecology, 41 (3) : 494-508
 A mechanical model for the study of population dynamics
 Ill. description of what is virtually an analog computer, working on principle of "pinball machine" and similar to that familiar to fisheries scientists as the "Lowestoft" model, but having facilities for studying density dependent mortality rates. Discusses algebraic representation of the mechanical model, its use for instruction, and some trial results obtained on population growth and equilibrium.

F

Packer, W. C. (1960)
Ecology, 41 (3) : 509-17

61-05903

Bioclimatic influences on the breeding migration of *Taricha rivularis*

Examines the influence of rainfall, temperature, relative humidity and barometric pressure on this newt in California.

MF

Davis, J. H. (1960)
Ecology, 41 (3) : 537-41

61-05904

Proposals concerning the concept of habitat and a classification of types

A brief review of the term habitat and the confusion of habitat with environment and other terms and concepts is followed by a discussion of the broad concept of habitat. A classification of habitats is proposed and an outline is presented.

M

Wigley, R. L. (1960)
Ecology, 41 (3) : 564-70

61-05905

Note on the distribution of Pandalidae (Crustacea, Decapoda) in New England waters

Based on collections made in 1956, summarizes the situation with special reference to *Dichelopandalus leptocerus*, *Pandalus borealis*, *P. montagui*, and *P. propinquus*. Geographic and bathymetric distribution and temperature and bottom sediment relationships are discussed.

F

Williams, R. W. (1960)
Ecology, 41 (3) : 573-4

61-05906

A new and simple method for the isolation of fresh-water invertebrates from soil samples

Redescribes the use of a technique for collection of invertebrates from other than sandy soil.

M

Wells, H. W., M. J. Wells & I. E. Gray (1960)
Ecology, 41 (3) : 578-80

61-05907

On the southern limit of *Balanus balanoides* in the western Atlantic

Describes its locality records on western Atlantic coast incl. new record of southern limit—35° 30' N—and discusses factors responsible for southern limitation.

M

Burnett, A. L. (1960)
Ecology, 41 (3) : 583-4

61-05908

The mechanism employed by the starfish, *Asterias forbesi*, to gain access to the interior of the bivalve, *Venus mercenaria*

Contributes further evidence to show that the valves can be opened through the force alone and without the secretion of a toxic substance.

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61-05909
- Sutcliffe, W. H., Jr.** (1960)
Ecology, 41 (3) : 585-7
 On the diversity of the copepod population in the Sargasso Sea off Bermuda
 Ci 59-6793. Attempts to make some correlation of the diversity of the spp. with the standing crop and zooplankton and thus with the gross picture of basic productivity near Bermuda.
- M
61-05910
- Hoese, H. D.** (1960)
Ecology, 41 (3) : 592-3
 Juvenile penaeid shrimp in the shallow Gulf of Mexico
 Based on collections in east Texas, discusses occurrence of *Penaeus* in relation to salinity, protection from predation, etc.
- MF
61-05911
- Noble, E. R.** (1960)
Ecology, 41 (3) : 593-6
 Fishes and their parasite-mix as objects for ecological studies
 A general essay on the subject.
- MF
61-05912
- Lytle, C. F.** (1960)
Ecology, 41 (3) : 603-4
 Behaviour of the invertebrates
 Re 59-0158.
- M
61-05913
- Curl, H., Jr.** (1960)
Ecology, 41 (3) : 605
 The ocean river refuted
 Re 59-6458.
- M
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- Bates, M.** (1960)*
 New York, Random House, 277 p.
 The forest and the sea—A look at the economy of nature and the ecology of man
- M
61-05915
- Egler, F. E.** (1960)
Ecology, 41 (3) : 605-6
 Ecosystems of the world
 Re 61-05914.

- M
61-05916
- Kriss, A. E., M. N. Lebedeva & I. N. Mitzkevich** (1960)
Deep-Sea Res., 6 (3) : 173-83
 Micro-organisms as indicators of hydrological phenomena in seas and oceans—2. Investigation of the deep circulation of the Indian Ocean using microbiological methods
- Co 61-02395. Description of the horizontal and vertical distribution of heterotrophs and individual bacterial spp. in the Indian Ocean.
- M
61-05917
- Hayter, P. J. D.** (1960)
Deep-Sea Res., 6 (3) : 184-6
 The Ganges and Indus submarine canyons
- Details are shown of the topography of the sea floor near the heads of the Ganges and Indus submarine canyons.
- M
61-05918
- Jousé, A. P.** (1960)
Deep-Sea Res., 6 (3) : 187-92
 Les diatomées des dépôts de fond de la partie nord-ouest de l'Océan Pacifique (Diatoms of the bottom deposits of the NW part of the Pacific Ocean)
- Stratigraphy and depth distribution of different spp. in the sediment cores.
- M
61-05919
- Hill, M. N.** (1960)
Deep-Sea Res., 6 (3) : 193-205
 A median valley of the Mid-Atlantic Ridge
- A median valley of the Mid-Atlantic Ridge at least 75 miles in length running in a north-south direction is described.
- M
61-05920
- Baker, A. de C.** (1960)
Deep-Sea Res., 6 (3) : 206-10
 Observations of squid at the surface in the NE Atlantic
- An account is given of visual surface observations on squid in the NE Atlantic. These show that *Ommastrephes pteropus* Steenstrup, is continuously distributed throughout the surface water of the very extensive region between the English Channel, the Azores and the Canary Islands.
- M
61-05921
- Lacombe, H.** (1960)
Deep-Sea Res., 6 (3) : 211-6
 Quelques traits remarquables du relief sous-marin en Mer Méditerranée et en Mer Noire (Some remarkable traces of the submarine relief in the Mediterranean and in the Black Sea)
- These soundings show the existence of depths of 5000 m in the Ionian Sea, south of continental Greece, and of ripples reaching 40 m in height in regular depths of 1900 m in the southern Black Sea, off the Bosphorus.

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 On the abyssal circulation of the world ocean—2. An idealized model of the circulation pattern and amplitude in oceanic basins
- The model is based on the postulation of the existence of two concentrated sources of abyssal waters—North Atlantic and Weddell Sea—and on a uniformly distributed upward flux of water from the abyssal to the upper layers as part of the mechanisms of the main oceanic thermocline.
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- Mead, G. W.** (1960)
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 Hermaphroditism in archibenthic and pelagic fishes of the order Iniomi
- Ovotestes, with both male and female components in advanced stages of maturation, were found in 10 spp. of the iniomous families Chlorophthalmidae, Bathypteroidae, Alepisauridae and Paralepididae.
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 The seasonal and geographical range of primary production in the western Sargasso Sea
- Discussion on the possible absence of greater seasonal variations in the production cycle and of the horizontal distribution of the productivity.
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- Richardson, W. S. & C. J. Hubbard** (1960)
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 The contouring temperature recorder
- Description of the instrument and its use.
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 Proposed International Indian Ocean Oceanographic Expedition, 1962-1963
- General review oceanographic survey programmes with emphasis on proposed Indian Ocean survey.
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 Indian Ocean vertical temperature sections
- Presentation of the temperature sections, using BT data.
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- Bourcart, J.** (1958)*
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 Problèmes de géologie sous-marine (Problems of submarine geology)

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- Kato, G.** (1959)
Rep. Japan Sea reg. Fish. Res. Lab., (5) : 1-17
 (A few comments on the biological grouping of the common squid derived from its ecological aspect—1.). *Ni En*
- Sex-ratio and annual growth of *Ommastrephes sloani pacificus* used to characterize populations of this sp.
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61-05930
- Hamabe, M. & T. Shimizu** (1959)
Rep. Japan Sea reg. Fish. Res. Lab., (5) : 19-27
 (Littoral aggregation of the squid at the Oki Islands—2.). *Ni En*
- Reports aggregation of *Ommastrephes* in Saigo Bay, on basis of 1954-59 data.
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61-05931
- Ito, S.** (1959)
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 (On the long term fluctuations of catch of buri (*Seriola quinqueradiata*) in winter at Ine, Tango District). *Ni En*
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61-05932
- Ito, S. & S. Kasahara** (1959)
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 (On the teeth-marks found impressed on the recovered polyethylene drift envelopes). *Ni En*
- Teeth marks of puffer spp. *Fugu* and *Lagocephalus* on envelopes used to study drift of sardine eggs and larvae and recovered NW of Kuyushu 1958-59, identified by pattern of marks by live fish observed. Behavioural explanation.
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 (A note on the problem of the vertebral number variation in sardine, as considered by the results of studies on the buoyancy of its eggs in the sea). *Ni En*
- Relates to *Sardinops melanosticta* spawning in the middle and northern Japan Sea.
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 Observations on the spawning and the early life history of the pearlsides in the adjacent waters to Noto Peninsula in the Japan Sea). *Ni En*
- Examination of eggs and larvae of *Maurolicus pennanti japonicus* in plankton samples off Noto Peninsula, 26-28 Apr. 1955; estimates of abundance of this bathypelagic sp. and comparison with *Sardinops*.

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 Stomach contents of *Pneumatophorus japonicus* taken by light and purse-seine in 1958; seasonal succession in relation to plankton composition changes.
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Rep. Japan Sea reg. Fish. Res. Lab., (5) : 115-7
 (Tagging experiments of the Alaska pollack in Japan Sea—2. Results of the experiments made in 1959). *Ni En*
 Co 60-2120.
- Ogata, T.** (1959) M
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Rep. Japan Sea reg. Fish. Res. Lab., (5) : 119-25
 (Population studies of the Alaska pollack in the Japan Sea—1. On the variation in the vertebral count). *Ni En*
 Racial analysis, 1950-58 data for *Theragra chalcogramma*.
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 (Observations on the nocturnal behaviour of fish—3. Diurnal changes of the swimming layer of the Japanese killifish in early winter). *Ni En*
 Continuous field observations, 15-19 Nov. 1953, of depth of *Oryzias latipes*; relation to nocturnal sleeping habit, and light intensity.
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Rep. Japan Sea reg. Fish. Res. Lab., (5) : 133-47
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 Discusses oceanographic features of the Tsushima Current.
- Tsukuda, N. & E. Noguchi** (1959) X
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Rep. Japan Sea reg. Fish. Res. Lab., (5) : 157-64
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Co 61-05942.

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61-05946
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Departamentul Industriei Alimentare (1960)
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 Inflorirea apei și productivitatea piscicolă a heleșteelor stațiunii Nucet în 1957-1959 (The weed and fish production in the ponds of the Nucet station in 1957-59). Fr Ru

Ill. experiments in the Nucet ponds. Good fish production has been obtained in ponds with moderate growth of algae.

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61-05949

Bul. Inst. Cerc. piscic., 19 (1) : 27-36

Pierderile din efectivul de puiet-crap în Bălțile naturale ale luncii și deltei Dunării și măsurile de combatere (The losses of small carp in the lakes of the easily flooded plains and of the Danube Delta and measures for their control). Fr Ru

Manea, Gh. I. et al. (1960)

F
61-05950

Bul. Inst. Cerc. piscic., 19 (1) : 37-43

Asigurarea rezervelor piscicole în bunurile zonei inundabile a Dunării din regiunea Constanța (Insuring the fish preserves in the easily flooded zone of the Danube around Constantza). Fr Ru

Recommends the establishment of fish ponds similar to those existing at the delta of the Rivers Volga, Kuban, Kura and Don.

Susai, I. (1960)

F
61-05951

Bul. Inst. Cerc. piscic., 19 (1) : 44-52

Un procedeu simplu pentru mărirea eficacității reproducerii crapului în mediul natural (A simple procedure to increase the efficiency of carp production in natural environment). Fr Ru

Manea, Gh. & A. Nicolau (1960)

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Bul. Inst. Cerc. piscic., 19 (1) : 53-8

Cîteva date în legătura cu reproducerea artificială și dirijată a crapului efectuată pe scara industrială în bălțile Dunărene în primăvara anului 1959 (Some data on the management of artificial carp reproduction carried out on a commercial basis in the Danubian lakes during spring 1959). Fr Ru

III. technical scheme applied, observations made and results obtained.

Bușniță, Th. (1960)

M
61-05953

Bul. Inst. Cerc. piscic., 19 (1) : 59-70

Biologia și pescuitul chefalilor din dreptul litoralului Romînesc al mării Negre (The biology and catch of the grey mullets along the Roumanian coast of the Black Sea). Fr Ru

Data on food intake, reproduction and rhythm of growth in *Mugil cephalus*, *M. auratus* and *M. saliens*.

Ziemiankowski, Vl., A. Cristea & N. Băleanu (1960)

F
61-05954

Bul. Inst. Cerc. piscic., 19 (1) : 71-9

Considerații privind eficacitatea pescuitului cu vintire și taliane de Balta (Some considerations on the efficiency with hoop-nets and trap-nets). Fr Ru

- Roșca, G., I. G. Munteanu & A. Cristea** (1960) MF
61-05955
Bul. Inst. Cerc. piscic., 19 (1) : 80-8
 Folosirea relonului la confecționarea uneltelor de pescuit fixe (vintire)
 (The utilization of 'relon' in the manufacture of fixed hoop-nets engines).
 Fr Ru

Using relon nets catch is improved from 50 %–89 %, compared to cotton nets.

- Grande-Rivière, Québec. Station de Biologie Marine** (1960) M
61-05956
 102 p.
 Rapport annuel 1959 (Annual report 1959)

Contains general report of research carried out and other activities, list of staff, charts of oceanographic stations and the following reports of particular studies: 61-05957 to 61-05969. Contains also report of librarian, on exchange service; list of periodicals received. Notes on summer courses of general physiology of marine invertebrates and general marine biology; open days; list of publications.

- Lacroix, G.** (1960) M
61-05957
In 61-05956 : 10-6

Production de zooplancton dans la baie des Chaleurs en 1959 (Production of zooplankton in the Bay of Chaleurs in 1959)

- Lacroix, G.** (1960) M
61-05958
In 61-05956 : 17-23

Reproduction cyclique des cladocères marins dans le golfe Saint-Laurent (Cyclic reproduction of marine cladocerans in the Gulf of Saint-Lawrence)

- Lacroix, G.** (1960) M
61-05959
In 61-05956 : 24-6

Distribution horizontale et biologie des euphausides dans la baie des Chaleurs en 1959 (Horizontal distribution and biology of euphausids in the Bay of Chaleurs in 1959)

- Lacroix, G.** (1960) M
61-05960
In 61-05956 : 27-32

Migrations verticales des euphausides et de la morue à l'embouchure de la baie des Chaleurs en 1959 (Vertical migrations of euphausids and the cod at the entrance of the Bay of Chaleurs in 1959)

- Brunel, P.** (1960) M
61-05961
In 61-05956 : 33-4

Inventaire taxonomique des invertébrés benthiques de la baie des Chaleurs: amphipodes, polychètes et phoronides (Taxonomic inventory of benthic invertebrates in the Bay of Chaleurs: amphipods, polychaetes and phoronids)

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- Brunel, P. (1960)** M
61-05962
In 61-05956 : 35-9
 Travaux effectués en 1959 sur les communautés benthiques marines (Work carried out in 1959 on the marine benthic communities)
- Bergeron, J. (1960)** MF
61-05963
In 61-05956 : 40-51
 Travaux sur le saumon (Work on the salmon)
- Marcotte, A. (1960)** M
61-05964
In 61-05956 : 52-6
 Recensement des poissons de fond à l'entrée de la baie des Chaleurs en 1959 (Creel census of bottom fishes at the entrance of Bay of Chaleurs in 1959)
- Brunel, P. (1960)** M
61-05965
In 61-05956 : 57-62
 Analyse des données sur l'alimentation de la morue de 1951 à 1954 (Analysis of results on the feeding of cod for 1951 to 1954)
- Marcotte, A. (1960)** M
61-05966
In 61-05956 : 63-8
 Échantillonnage des captures commerciales de morue (Distribution of commercial catches of cod)
- Brunel, P. & G. Lacroix (1960)** M
61-05967
In 61-05956 : 69-71
 Essais préliminaires d'observations hydrographiques, planctoniques et benthiques simultanées (Preliminary account of simultaneous hydrographic, planktonic and benthic observations)
- Brunel, P. (1960)** M
61-05968
In 61-05956 : 72-7
 Rapport du conservateur du musée (Report of the curator of the museum)
- Brunel, P. (1960)** M
61-05969
In 61-05956 : 97-8
 Observations éparées en 1959 sur quelques espèces animales macroscopiques pélagiques (Observations during 1959 of some species of macroscopic pelagic animals)
- Notes on whales, *Mallotus*, *Cetorhinus*, *Staurophora*, *Aurelia*, *Cyanea*.

- Schmidt-Ries, H.** (1958) F
61-05970
Forsch.Ber. Wirt. Verh.Minist. Nordrhein-Westf., (508) : 63 p.
 Limnologische Untersuchungen des Rheinstroms—1. Hydrobiologische und
 physiographische Verhältnisse im Rheinstrom im Bild bisheriger Untersuch-
 ungen (Limnological investigations of Rhine River—1. Hydrobiological and
 physiographical conditions in the Rhine Stream based on earlier investigations)
- Dietrich, G.** (n.d. 1960?) M
61-05971
 IAPO, mimeo, 1 p.
 On the overflow of the Greenland-Scotland Ridge
 Do 60-018me. Abstr. only.
- Austin, T. S.** (n.d. 1960?) M
61-05972
 IAPO, mimeo, 1 p.
 East-west variations in the equatorial undercurrent
 Do 60-018me. Abstr. only.
- Cooper, L. H. N.** (n.d. 1960?) M
61-05973
 IAPO, mimeo
 The influence of the Greenland-Shetland Rise on world chemical oceano-
 graphy
 Do 60-018me. Abstr. only.
- Cooper, L. H. N.** (n.d. 1960?) M
61-05974
 IAPO, mimeo
 A system for international exchange of samples for trace element analysis of
 ocean water
 Do 60-018me. Abstr. only
- Harris, D. L.** (n.d. 1960?) M
61-05975
 IAPO, mimeo, 1 p.
 The importance of surface waves in the generation of storm surges
 Do 60-018me. Abstr. only.
- Schönfeld, J. C.** (n.d. 1960?) M
61-05976
 IAPO, mimeo, 1 p.
 A theory of diffusion in autonomous turbulent fields
 Do 60-018me. Abstr. only.

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- Liebmann, H.** (1960)
München, Oldenbourg, 1149 p.
Handbuch der Frischwasser-und Abwasser-Biologie—Band 2. (Manual of biology of fresh and polluted waters—Vol. 2.)
- Comprehensive handbook, containing the following chapters: Natural self-purification; Biology of recipients; Biology of drinking waters; Biology of bathing waters; Biology of fishery waters; Biology of waste waters; Toxicology of waste waters; Special damages to organisms, specially fish, by non-poisonous substances; Biological water management.
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61-05978
- Newth, D. R.** (1960)
Amer. Scient., 48 (3) : 300–10
Black axolotl, and white
- Short description of the life history of tadpoles with precocious sexual maturity from Mexico, and genetic experiments carried out with this sp.
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61-05979
- Duncan, C. J.** (1960)
Proc. zool. Soc. Lond., 134 (4) : 601–9
The evolution of the pulmonate genital system
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- Burdon-Jones, C. & A. M. Patil** (1960)
Proc. zool. Soc. Lond., 134 (4) : 635–45
A revision of the genus *Saccoglossus* (Enteropneusta) in British waters
- Comparative study of topotypes of *S. ruber* (Tattersall), *S. serpentinus* (Assheton) and *S. cambrensis* Brambell and Cole shows they are conspecific, and ought all to be designated *S. ruber* (Tattersall).
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- Fox, H.** (1960)
Proc. zool. Soc. Lond., 134 (4) : 659–63
Early pronephric growth in *Neoceratodus* larvae
- Measurements of *N. forsteri*; comparison with *Lepidosiren* and *Protopterus*.
- MF
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- USFWS. Bureau of Sport Fisheries & Wildlife. Branch of Fishery Research (Comp.)** (1960)
Circ. U.S. Fish. Wildl. Serv., (81) : 80 p.
Progress in sport fishery research, 1959
- Brief accounts of work being done together with some results from 12 research stations, with list of year's publications and staff.

M

U.S.S.R. Akademiia Nauk. Komitet po Geodesii i Geofizike (1960) 61-05983
Moskva, 103 p.

Soobshchenie o nauchnykh rabotakh po fizicheskoi okeanografii 1957-1959 gg. (News on scientific works on physical oceanography in the years 1957 to 1959)

Review of the works and projects carried out with annotated bibliography of publications in the subjects.

MF

Australia. CSIRO (1959)
Rep. sci. Res. Org., Canberra, (11) : 181 p.

61-05984

Chapter 12 contains an account of the work of the Organization's Division of Fisheries and Oceanography in fisheries, biology, taxonomy, hydrography, planktology, microbiology, productivity and marine fouling and other fields, with account of the operations of its research vessels.

MF

France. Conseil Supérieur de la Pêche (1960)
Bull. Inf. Cons. sup. Pêche, (39-40) : 110 p.

61-05985

Regular quarterly bulletin reporting the activities of the Council. Incl. technical notes; official communications concerning such matters as pollution, policing, and control of fishing; jurisprudence; service conditions; miscellaneous.

MF

Rioja, E. (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 151-7

61-05986

Estudios hidrobiológicos—12. Hallazgo de la *Cordylophora caspia* (Pallas) (Hidroideo gimnoblástico en la laguna de Mandinga Veracruz) (Hydrobiological studies—12. Findings of *Cordylophora caspia* (Pallas)—Gymnoblástid hydroid in the Lagoon of Mandinga Veracruz)

Describes abundant colonies observed in 1959 of *Brachyodontes*.

M

Caballero, E. y C. (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 159-66

61-05987

Trematodos de las tortugas de México—7. Descripción de un trematodo digéneo que parasita a tortugas marinas comestibles del Puerto de Acapulco, Guerrero (Trematodes of the turtles of Mexico—7. Description of a digenetic trematode parasitizing edible marine turtles of Puerto de Acapulco, Guerrero). En

Describes *Cymatocarpus undulatus* (*Distomum soleare*) from small intestine of *Chelone mydas*.

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61-05988
- Caballero, E. y C. & M. Bravo-Hollis** (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 167-81
 Trematodos de peces de aguas mexicanas del Pacifico—17. Dos nuevos generos de Monogenoidea Bychowsky, 1937) (Trematodes of fishes from Mexican waters of the Pacific—17. Two new genera of Monogenoidea Bychowsky 1937). En
- Describes *MEXICANA bychowsky* (Tetraonchidae) from Sciaenidae, and *PARACALCEOSTOMA calceostomoides* (Calceostomatidae) from *Haemulon scudderii*.
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61-05989
- Winter, H. A.** (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 183-208
 Algunos trematodos digeneos de peces marinos de aguas del Oceano Pacifico del Sur de California, U.S.A. y del litoral mexicano (Some digenetic trematodes from marine fishes of the Pacific Ocean from southern California, USA and the Mexican coast). En
- Redescriptions, new host and locality records for 10 spp. in 8 families. Hosts were spp. of *Scorpaena*, *Epinephelus*, *Genyonemus*, *Girella*, *Cirrhitus*, *Galeorhinus*, *Balistes* and *Cymatogaster*.
- F
61-05990
- Caballero, E. y C.** (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 227-42
 Hirudineos de Mexico—22. Taxa y nomenclatura de la clase Hirudinea hasta generos (Leeches of Mexico—22. Taxa and nomenclature of the class Hirudinea to genera). En
- NE 1956 Caballero, E. y C. New genera added; other names revised; extended bibliography. Lists all genera of the class in systematic order—not confined to Mexico.
- M
61-05991
- Rioja, E.** (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 243-59
 Estudios anelidologicos—23. Contribucion al conocimiento de los anelidos poliquetos de las Islas de Revillagigedo (Annelidological studies—23. Contribution to knowledge of the polychaete annelids of the Islands of Revilla Gigedo)
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61-05992
- Villalobos, A. F.** (1959)
An. Inst. Biol. Univ. Méx., 30 (1-2) : 269-330
 Contribucion al conocimiento de los Atyidae de Mexico—2. (Crustacea, Decapoda). Estudio de algunas especies del genero *Potimirim* (= *Ortmannia*), con descripcion de una especie nueva en Brasil (Contribution to knowledge of the Atyidae of Mexico—2. (Crustacea, Decapoda). Study of some species of the genus *Potimirim* (= *Ortmannia*), with description of a new sp. from Brazil)
- Species.

Villalobos, A. F. (1959)

M
61-05993

An. Inst. Biol. Univ. Méx., 30 (1-2) : 331-47

Un nuevo genero de Atyidae (Crustacea, Decapoda), procedente de la Isla de Cocos (A new genus of Atyidae (Crustacea, Decapoda), from the Cocos Island)

Ill. description of new sp. *Archaeatya chacei*.

Japanese Government Survey Mission (1960)

MF
61-05994

Tokyo, 89 p.

Fishing industry in Turkey

Report of survey 21/10-21/11/1959. Reviews geography and resources; summarizes present fisheries-spp., grounds, production trends; prices, trade, processing; appraisal of present fisheries research; proposals for development of industry.

Ichiye, T. (1960)

M
61-05995

Tellus, 12 (2) : 149-58

On critical regimes and horizontal concentration of momentum in ocean currents with two-layered system

The principles of minimum momentum transport and minimum energy are applied to the current in a two-layered ocean. For a flow of a finite width over the motionless lower layer these principles with the constancy of total volume transport predict the critical values of current width and upper layer thickness.

Faller, A. J. (1960)

M
61-05996

Tellus, 12 (2) : 159-71

Further examples of stationary planetary flow patterns in bounded basins

Laboratory experiments and the analysis to incl. the effects of bottom friction show that the characteristic spreading of zonal currents is due to bottom friction combined with the radial depth variation. Equations are developed and examples of "recirculation" and the spread of zonal flow are worked out for a barotropic ocean of uniform depth.

Stern, M. E. (1960)

M
61-05997

Tellus, 12 (2) : 172-5

The "salt-fountain" and thermohaline convection

Discussion of the "gravitationally stable" salinity and temperature stratification in the sea and mathematical study of the convective motion.

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- McDonald, J. E.** (1960)
Tellus, 12 (2) : 176-83
 Remarks on correlation methods in geophysics

From consideration of several studies of the sampling properties of the product-moment correlation coefficient r it is concluded that use of geophysically adequate significance tests and confidence limits for r can almost always be achieved through use of the simple standard error of r .

- M
61-05999
- Lodge, J. P., Jr., A. J. MacDonald, Jr. & E. Vihman** (1960)
Tellus, 12 (2) : 184-7
 A study of the composition of marine atmospheres

Data on trace substances in air, obtained in mid-Pacific during two summers, are summarized.

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61-06000
- Kanwisher, J.** (1960)
Tellus, 12 (2) : 209-15
 $p\text{CO}_2$ in sea water and its effect on the movement of CO_2 in nature

A method is described for measuring $p\text{CO}_2$. It has been used to determine the changes in $p\text{CO}_2$ produced by variations of temperature and total CO_2 . It appears that most of the fossil fuel CO_2 released by man has been effective in increasing the percentage of this gas in air.

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61-06001
- J. B. M.** (1960)
Conserv. Bull. Minn., 23 (135) : 10
 Record tullibee?

Records the taking of a $6\frac{1}{2}$ lb, 27 inch long specimen from Big Saganaga Lake, Minnesota, on 26 Oct. 1959.

- M
61-06002
- Bjerknes, J.** (1960)
WMO Bull., 9 (3) : 151-7
 Ocean temperatures and atmospheric circulation

Interactions between the surface water and air circulations and history of water temperature changes over the North Atlantic and their dependence on corresponding changes in atmospheric circulation.

- F
61-06003
- Krefft, G.** (1959)
Arb. Inst. Seefisch., (4) : 309-11

Richtlinien zur Erstbeschreibung von Fischarten, aufgestellt im Verlauf der zweiten Arbeitstagung deutscher Ichthyologen (Guiding principles for prime description of fish species established in the course of the second meeting of German ichthyologists)

G

Davis, D. E. (1960)

61-06004

J. Wildlife Mgmt., 24 (3) : 344-8

A chart for estimation of life expectancy

Present chart from which life expectancy can be determined when probability of survival known. Compares several procedures for calculating life expectancy.

F

Dees, L. T. (1960)

61-06005

Fish. Leaflet, Wash., (491) : 8 p.

Sea lamprey

Brief popular summary of life history, effect on fishery, and coastal measures.

MF

Ross, A. J. & R. R. Rucker (1960)

61-06006

Fish. Leaflet, Wash., (497) : 3 p.

A "virus" disease of chinook salmon

Gives identification, cause, source and reservoir of infection, mode of transmission, incubation period, period of communicability, susceptibility and resistance, range, occurrence, and method of control of virus disease of chinook salmon, *Oncorhynchus tshawytscha*.

F

Ruf, M. (1960)

61-06007

Allg. FischZtg., 85 (13) : 303-7

Die Verunreinigung der Gewässer durch radioaktive Substanzen—Sind unsere Fische radioaktiv "verseucht"? (The pollution of waters by radioactive substances—Are our fishes contaminated with radioactivity?)

Reviews the possibilities of contaminating waters with radioactive waste products and their influence on aquatic life.

MF

Price, T. J. (1958)*

61-06008

Paper presented at the Annual 1958 Convention of the National Shellfisheries Association

Accumulation of radioactive cesium by shellfish

MF

Nelson, T. C. (1958)*

61-06009

Paper presented at the Annual 1958 Convention of the National Shellfisheries Association

The oyster larvae; some highlights of one-half century in retrospect

MF

Mackin, J. G. (1958)*

61-06010

Paper presented at the 1958 Annual Convention of the National Shellfisheries Association

Longevity of oysters in Louisiana

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- McDermott, J. J. (1958)***
 Paper presented at the 1958 Annual Convention of the National Shellfisheries Association
 Productivity of Delaware Bay natural seed bed
- MF
61-06012
- Butler, P. A. (1958)***
 Paper presented at the 1958 Annual Convention of the National Shellfisheries Association
 Growth of New England hard clams in Florida
- F
61-06013
- Conference on Great Lakes Research, 3rd, Present Status and Future Needs, Ann Arbor, Michigan, May 6-7, 1959 (1960)**
 Ann Arbor, 160 p.
 Proceedings
- Proceedings of the meeting convened to assess the present status of all kinds of research on the Great Lakes and to focus attention on areas of study that have been neglected thus far but offer exciting and rewarding opportunities for the immediate future. Gives status and activity reports, research projects and brief account of panel discussions on the survey of present and recommendations for future. Contains 61-06014 to 61-06020. Referred also as: *Publ. Gr. Lakes Res.*, (4).
- F
61-06014
- Bruce, J. P. (1960)**
Proc. Conf. Gr. Lakes Res., (3) : 3-8
 Great Lakes research
- Status report on Canadian Meteorological Branch activity. Incl. summary of preliminary study on the relation of gradient winds over Lake Ontario to drift bottle paths and water currents.
- F
61-06015
- Petterssen, S. (1960)**
Proc. Conf. Gr. Lakes Res., (3) : 9-20
 Some weather influences due to warming of the air by the Great Lakes in winter
- Account of preliminary survey of effects of Great Lakes on pressure configurations and patterns of precipitation during cold spell.
- F
61-06016
- Platzman, G. (1960)**
Proc. Conf. Gr. Lakes Res., (3) : 21-5
 A numerical computation of the surge of 26 June 1954 on Lake Michigan
- CR 60-6021. Deals with the problem of predicting fluctuations of water level produced by movement of squall line across the surface of a lake. Uses a numerical method to obtain the particular solution for the surge of 26 Jun. 1954.

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61-06017
Proc. Conf. Gr. Lakes Res., (3) : 35-42
 Winds and water levels on Lake Erie

Demonstrates possibility of producing an operationally useful forecast of lake levels with reasonably accurate forecasts from weather office.

- Johnson, R. L.** (1960) F
61-06018
Proc. Conf. Gr. Lakes Res., (3) : 43-9
 Limnology and the sanitary engineer

Account of limnological factors which affect pollution of public bathing places and water supplies along the Great Lakes.

- Portman, D. J.** (1960) F
61-06019
Proc. Conf. Gr. Lakes Res., (3) : 77-84
 An improved technique for measuring wind and temperature profiles over water and some results obtained for light winds

Ill. description of equipment and technique. Gives results obtained in first trial.

- Brunk, I. W.** (1960) F
61-06020
Proc. nat. Shellfish. Ass., (3) : 145-50
 Precipitation and the levels of lakes Michigan and Huron

CR 60-1997. Uses precipitation data for land area of Michigan-Huron drainage basin to demonstrate relationships with lake levels.

- Chipman, W. A.** (1959) MF
61-06021
Proc. nat. Shellfish. Ass., 49 (1958) : 5-12
 Disposal of radioactive materials and its relation to fisheries

Gives description of nature and origin of radioactive wastes arising in industries, discusses problems in disposal and control of discharge.

- Medcof, J. C.** (1959) MF
61-06022
Proc. nat. Shellfish. Ass., 49 (1958) : 13-28
 Studies on stored oysters (*Crassostrea virginica*)

Observation on survival, fatness and flavour in oysters left on beds and in oysters held in air storage.

- Andrews, J. D., D. Haven & D. B. Quayle** (1959) MF
61-06023
Proc. nat. Shellfish. Ass., 49 (1958) : 29-49
 Fresh-water kill of oysters (*Crassostrea virginica*) in James River, Virginia, 1958

Account of observations on the salinity and temperature effect and estimations of mortality.

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61-06024
- Quayle, D. B. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 50-3
 Prediction of oyster setting in British Columbia (*Crassostrea gigas*)
- Describes empirical method of determining time and approximate intensity of setting.
- MF
61-06025
- Quayle, D. B. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 54-8
 Pacific oyster seed production (*Crassostrea gigas*)
- Describes procurement of oysters needed to sustain the industry in NW Pacific and compares two main sources together with the type of seed and cultch from each.
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- Amant, L. S. St. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 71-6
 Successful use of reef oyster shells (mud shells) as oyster cultch in Louisiana
- Account of investigations to determine the suitability of these shells. Compares results obtained from reef and steam shells.
- MF
61-06027
- Haven, D. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 77-86
 Effects of pea crabs *Pinnotheres ostreum* on oysters *Crassostrea virginica*
- Compares oysters with and without crabs for growth and fatness. Measurements incl. volume, wet and dry meat weight, and shell cavity volume.
- MF
61-06028
- Chapman, C. R. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 87-97
 Oyster drill (*Thais haemastoma*) predation in Mississippi Sound
- Account of investigations to determine the effect of oyster drill on spatfall, spat and larger oysters.
- MF
61-06029
- Orcutt, H. G. (1959)**
Proc. nat. Shellfish. Ass., 49 (1958) : 98-100
 California oyster ground utilization plan
- Notes on culture laws and policies.
- F
61-06030
- Keiz, G. (1960)**
Allg. FischZtg., 85 (10) : 227
 Die Wasserfrösche als Schädlinge in der Forellenzucht (Water frogs a pest for trout culture)
- Reviews literature; ill. experiments with frogs in ponds stocked with rainbow trout, and describe stomach contents.

M

France. Institut Océanographique (1958)

61-06031

Ann. Inst. océanogr., Paris, 34 : 336 p.

Résultats scientifiques des campagnes de la 'Calypso' (Scientific results of the expeditions of the 'Calypso')

Reports on several expeditions in different waters containing studies on sponges, fishes, molluscs, echinoderms, sediments, benthos, etc.

M

Le Danois, Y. (1959)

61-06032

Ann. Inst. océanogr., Paris, 36 (1) : 274 p.

Étude ostéologique myologique et systématique des poissons du sous-ordre des Orbiculates (Osteologic, myologic and systematic study of fishes of the sub-order Orbiculates)

Cranio-osteological, myological and systematic study and notes on the lateromucous system.

M

France. Institut Océanographique (1959)

61-06033

Ann. Inst. océanogr., Paris, 37 (4) : 342 p.

Résultats scientifiques des campagnes de la 'Calypso' (Scientific results of the expeditions of the 'Calypso')

Results of expeditions on Gulf of Guinea, and Principe, San Tomé and Annobon Islands, coast of Provence, Gulf of Genoa, Alboran Sea and Ibero-Moroccan Bays.

F

Červenka, R. et al. (1959)

61-06034

Sborn. vys. Šk. chem.-tech., Praha, 3 (1) : 247-90

Limnologická studie o nádrži Sedlice u Želiva—7. Příspěvek k metodice výběru nových algicidních sloučenin (Limnological study of the reservoir Sedlice near Zeliv—7. A contribution to the technique of selecting new algicide compounds). En Ru

Describes studies of methods of preventing excessive increase of phytoplankton using compounds of copper, silver and sodium pentachlorophenolate.

F

Leffler, R. (1960)

61-06035

Sea Frontiers, 6 (1) : 10-7

Oceanic conservation fleet

Incl. details of USFWS research vessels, and planes, and notes on their equipment and activities.

M

Gilmore, R. M. (1960)

61-06036

Sea Frontiers, 6 (1) : 18-23

Whale in the grass

Popular description of the migrations of whales in Northeastern Pacific.

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Sea Frontiers, 6 (1) : 24-32
 Fisheries research in Hong Kong
- Description of the fisheries research programme and principal results obtained in the past.
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- Randall, J. E.** (1960) 61-06038
Sea Frontiers, 6 (1) : 33-44
 New fishes for Hawaii
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- Popular descriptions of some fish parasites.
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Canad. J. Bot., 38 : 217-26
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- Account of systematic examination of fungal biota on submerged wood panels. Active ascomycetous and deuteromycetous mycota dominates others. Issued also as: *Contr. Mar. Lab. Univ. Miami*, (252).
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- Occurrence and distribution of eggs and larvae of *Gadus morhua*, *Melanogrammus aeglefinus*, *Pollachius virens*, *Clupea harengus*, *Sebastes marinus*, *Brosme brosme*, *Mallotus villosus*.
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 Sistematičeskii spisok planktonovykh vodoroslei ozera Baikal i nekotorye dannye po biologii ikh massovykh form (Systematic list of the plankton algae of Lake Baikal and some data on the biology of their conglomerations)

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- Short description on the basis of the predictions of mackerel fishery in Skagerrak and Kattegat, with notes of mackerel behaviour in different hydrographic conditions.
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- Description of experimental location and determination of the influence of sky and water surface conditions on the data. Radiance distribution under clear and overcast sky is given in tables.
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 83 p.
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- Designed for use in making surveys of marshes and shallow lakes in Minnesota to provide physical, chemical and biological data on water fowl and muskrats. Incl. field sheets, lists of and keys to Minnesota aquatic plants, description of wetland types, material for identification of young ducks, material in control of aquatic nuisances, habitat management, etc.

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Fisken og Havet, (2) : 12 p.
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- Expedition's route with principal results of oceanographic and fisheries investigations.
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Ann Arbor, 67 p.
Annual report for the year 1958
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On the food of nudibranchs
- Aquarium observations of bed sea spp. indicates selective diet, ranging from exclusively algal to exclusively animal; depend on plankton in absence of other food; mortality caused by lack of suitable foods but does not follow spawning. Mass migration to better feeding areas occurs after spawning.
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- Describes in detail procedure of micro-method of hematocrit as applied to *Salmo trutta* and *Salmo gairdnerii*.
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 Studies of early cleavage in the surf clam, *Spisula solidissima*, using methylene blue and toluidine blue as vital stains
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 The morphology and life-history of the digenetic trematode, *Asymphyiodora amnicolae* n. sp.; the possible significance of progenesis for the phylogeny of the Digenea
- Reviews genus and its world distribution in Cyprinidae and other fishes; experiments with this sp., adults from guts of *Perca flavescens*, *Fundulus*, *Micropterus dolomieu* and *Lepomis macrochirus*, juveniles and mature worms from pectinibranchiate snail, *Amnicola limosa* in ponds in New England.
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 Studies on the physiological variation between tropical and temperate zone fiddler crabs of the genus *Uca*—3. The influence of temperature acclimation on oxygen consumption of whole organisms
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 Respiration and anaerobic survival in some sea weed-inhabiting invertebrates
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 Über die Grenzen der Genauigkeit bei Echolotungen in ozeanischen Seeräumen (On the limits of accuracy of echo soundings in ocean regions).
 En Fr

With a view to determine the limits of accuracy of echo soundings in ocean regions, the effect of regionally generalized mean values of sound velocity and of the directional diagrams of acoustic radiators and receivers as well as the influence exercised by measuring the echo running time and the recording accuracy of sound impulses are investigated.

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The growth of the waves in a storm in which the significant waves grew from 6 feet to 42 feet as recorded by the O.W.S. 'Weather Explorer' is studied. Spectra computed from the records are compared with the results of J. Darbyshire, C. Breischneider and G. Neumann.

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61-06063
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Dtsch. hydrogr. Z., 12 (6) : 259-62
 Bemerkungen zu einer von Djounkovski und Bojitch angegebenen Beziehung zur Berechnung des Seegangs aus den Windverhältnissen (Notes on a relation discussed by N. N. Djounkovski and P. K. Bojitch for computing sea waves from wind conditions). En Fr

An equation stated by Djounkovski and Bojitch, 1959, for computing the heights of sea waves is compared with the corresponding data of the "hindcasting" procedure applied by other authors.

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 Incidence and distribution of infestation by *Sphyrion lumpi* (Krøyer) on the redfish, *Sebastes marinus* (L.), of the western North Atlantic
- Describes parasite and its seasonal rhythm and abundance, distribution on *Sebastes marinus*, infestation and depth relation, life-history and localization of infestation. Incl. notes on migration of the host indicated by the old-head abundance of parasite.
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 Estimating abundance from longline catches
- Discusses to compute linear estimates of abundance by combining factors that enter into catch of fish by baited longline into equations that permit using information afforded by the catches.
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J. Fish. Res. Bd Can., 17 (1) : 41-60
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- Incl. discussion on change in growth pattern.
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J. Fish. Res. Bd Can., 17 (1) : 61-80
 An anomalous increase of temperature in the ocean off the Pacific coast of Canada through 1957 and 1958
- Discusses occurrence and development of anomalous oceanographic conditions, and their influence on spawning migration of *Oncorhynchus nerka*.
- F
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J. Fish. Res. Bd Can., 17 (1) : 81-90
 Effect of the ingestion of *Triaenophorus* plerocercoids on the nutritional characteristics of whitefish fillets in the rations of puppies
- Account of studies on the ingestion of fillets contaminated with *T. crassus*. States that have no detrimental effect.
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- Describes records of *Salmo gairdnerii* taken in 1959 indicating presence of sea-run population in the Eerste River, South Africa.
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- Jubb, R. A. (1960)**
Piscator, 13 (47) : 112-9
 Some Lake Kariba fish problems
- Describes the Zambesi River system's fish fauna, gives an account of the new reservoir impounded by Kariba Dam and discusses some of its fishery problems.
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Dtsch. FischZtg., 7 (2) : 39-44
 Versuche mit Prowona-Nährhefe als Zusatz im Futter von Regenbogenforellen (Experiments with Prowona nutrient yeast as supplement in the diet of rainbow trout)
- Reviews knowledge on vitamin requirement in trout food; describes experiments carried out and discusses results obtained.
- F
61-06074
- Mattheis, T. (1960)**
Dtsch. FischZtg., 7 (2) : 44-54
 Die infektiöse Nierenschwellung und Leberdegeneration der Forellen (INuL) (The infectious kidney swelling and liver degeneration in trout)
- Reviews literature on symptoms, prevention and control methods; describes own experiments and discusses results obtained.
- F
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- Wunder, W. (1960)**
Fischwirt, 10 (3) : 71-6
 Verkümmerserscheinungen bei Karpfenbrut (The appearance of atrophy in carp fry)
- Describes and ill. body deformations and discusses the possible causes.
- F
61-06076
- Deufel, J. (1960)**
Fischwirt, 10 (3) : 76-8
 Neuausbruch der infektiösen Nierenschwellung und Leberdegeneration in zwei Forellenzuchtanstalten (New outbreak of the infectious renal tumefaction and liver degeneration in two trout breeding farms)
- Ill. course of disease and recommends precautions.

- F
61-06077
- Nagel, L.** (1959)
Dtsch. FischZtg., 6 (10) : 300-3

Auswertung der Aufzuchtversuche von starken Zandersetzlingen in den Heideteichen der Oberlausitz (Evaluation of rearing experiments with pike perch fingerlings in heath ponds of the Lower Lusatia)

Describes possibilities for: (1) production in normally stocked carp ponds and (2) special ponds with application of white fish fry as food. Suggests (i), since (ii) has led to considerable losses due to cannibalism.

- M
61-06078
- Kotthaus, A.** (1960)
Allg. FischwirtschaftZtg., (17) : 12-4

Vorläufige Ergebnisse der deutschen Seezungen-Markierungen im Jahre 1959 (Preliminary results of the German sole tagging in 1959)

Describes tagging method, reports on migration of individuals, recaptures, and discusses results of experiments.

- M
61-06079
- Dollfus, R.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 385-94

Sur trois helminthes (distomien, tétrarhynque, palaeacanthocéphale) d'un *Melanoglaea ventralis* K. Barnard 1941, poisson téléostéen (On three helminths (distomid, tetra-rhynchid, palaeacanthocephalid) from *Melanoglaea ventralis* K. Barnard 1941, teleostean fish)

Taxonomic descriptions of *Coitocaecum cadenati* n. sp., *Plerocercus: Grillotia* sp. and *Echinorhynchus melanoglaeae* n. sp.

- F
61-06080
- Kiefer, F.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 395-401

Zwei neue Cyclopiden (Crust. Cop.) als Bewohner des Sandlücken Systems im Niger (Französischer Sudan) (Two new cyclopids, Crust. Cop., as habitants of sand interstitial in Niger, French Sudan)

Taxonomic description of the sp.

- M
61-06081
- Tomlinson, J. T.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 402-10

Cryptophialus coronatus, a new species of acrothoracican barnacle from Dakar

Taxonomic description of the sp.

- M
61-06082
- Collignon, J.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 411-64

Observations faunistiques et écologiques sur les mollusques testacés de la baie de Pointe-Noire (Moyen-Congo) (Faunistic and ecological observations on the testacean molluscs of the bay of Pointe-Noire, Middle Congo)

A catalogue of spp. with notes on their zonal distribution.

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61-06083
- Adam, W.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 465-511
 Les céphalopodes de l'Institut Français d'Afrique Noire—2. (The cephalopods of the Institut Français d'Afrique Noire—2.)
 A catalogue of spp. with descriptions of some of them.
- M
61-06084
- Stephen, A. C.** (1960)
Bull. Inst. franç. Afr. Noire, 22 (2) : 512-20
 Echiuroidea and Sipunculoidea from Senegal, West Africa
 A catalogue of spp. with notes on their taxonomy and occurrence.
- MF
61-06085
- Daget, J.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 610-9
 La faune ichthyologique du bassin de la Gambie (The ichthyological fauna of the Gambia Basin)
 A study of the distribution of the fishes classified by groups according to the various areas of the basin.
- M
61-06086
- Monod, T.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 620-98
 A propos du pseudobranchium des *Antennarius* (Pisces, Lophiiformes) (On the pseudobranchium of *Antennarius*, Pisces, Lophiiformes)
 A study of the anatomy, skeleton and muscular system of the pseudobranchium, with some comparative notes.
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61-06087
- Fraser, F. C.** (1960)
Bull. Inst. franç. Afr. noire, 22 (2) : 699-707
 A specimen of the genus *Feresia* from Senegal
 A comparative cranial study of the sp. of the genus.
- F
61-06088
- Sand, R. F. & W. G. Gordon** (1960)
Comm. Fish. Rev., 22 (6) : 1-12
 Exploratory fishing in Lake Erie, September 1958-November 1959
 Trawling for *Osmerus mordax*; charts, environmental conditions, etc.
- MF
61-06089
- Anon.** (1960)
Comm. Fish. Rev., 22 (6) : 15-9
 Equipment note no. 4.—A method of making electrical trawl cable terminations and connections
 Trends and developments—Fishing vessels and gear developments.

- M
61-06090
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 32
University of Miami granted funds for extension of research
Trends and developments—Oceanic bacteria.
- M
61-06091
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 42
Biologists survey Arctic fishery resources
Canada. Arctic Unit, based in Montreal, has made a survey of fish stocks of the Mackenzie and Keewatin Districts. Covered some 21 lakes extending east from Great Bear Lake to the northwest coast of Hudson Bay.
- MF
61-06092
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 46
Fish farming project proposed
Iceland. Icelandic citizen is planning a fish-farming project to raise principally sea trout, *Salmo trutta trutta*, for export. He has acquired a tract of land on the Snaefells Peninsula—in western Iceland—adjoining a bay, and by damming up an arm of the bay he expects to create a large fish pond.
- M
61-06093
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 54
U.S. firm starts fishing for shrimp
Kuwait.
- M
61-06094
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 55
Decree prohibits vessels from fishing within nine miles of border
Mexico.
- M
61-06095
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 57
Tuna operations
New Hebrides.
- M
61-06096
- Anon. (1960)**
Comm. Fish. Rev., 22 (6) : 58
Survey for mother-of-pearl in Bay of Bengal planned
Pakistan. Central Government has decided to conduct a survey of the sea bed surrounding St. Martin's Islands off the southern tip of East Pakistan to ascertain the quantity of mother-of-pearl deposits found at a depth of 6 fathoms in 1955.

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Anon. (1960) M
61-06097
Comm. Fish. Rev., 22 (6) : 62-3
 Fisheries in east Asiatic waters

USSR. At the end of 1959 the fisheries in the Soviet Far East were placed under a central administrative organization, the newly-established Directorate for the Fishing Industry in the Far East—Glavdalvostokrybprom.

U.K. Central Office of Information. Reference Division (1959) MF
61-06098
 London, 5 p.
 The fishing industry in Britain

Short survey covering fishing ports, methods of sea fishing, the fleet, landings and imports of fishery products, fresh-water fisheries, and the distribution system. Also described briefly are promotion and regulation of the industry, the 1959 Northeast Atlantic Fisheries Conservation Convention, and whaling activities.

Meschkat, A. (1961) MF
61-06099
Rep. FAO/E.T.A.P., (1305) : 77 p.
 Report to the Government of Brazil on the fisheries of the Amazon Region

Report on FAO project carried out under UN Expanded Technical Assistance Programme. Describes fishable waters of the region with regard to their potential productivity and evaluates fish stocks and fishing possibilities in them. States that fishing and transport processing and preservation techniques used are primitive, fishery administration insufficiently staffed and inadequate for developmental activities. Contains recommendations for further development.

Baschieri-Salvadori, F. (1961) M
61-06100
Rep. FAO/E.T.A.P., (1323) : 12 p.
 Second report to the Government of India on the pearl and chank beds in the Gulf of Manaar

Co 61-04448.

Ruppin, R. (1961) M
61-06101
Rep. FAO/E.T.A.P., (1328) : 17 p.
 Report to the Government of India on fishermen's training centres

Report on FAO project carried out under UN Expanded Technical Assistance Programme. Reports details of organization and operation of two training centres established at Mangalore and Kakinada. Curriculum incl.: general theory of fishing; materials and construction of fishing gear; fishing methods and operation; fishing technique; navigation; seamanship; engine work.

M

Andersson, K. A. (1960)

61-06102

Rep. Inst. mar. Res. Lysekil, (12) : 53 p.

On the causes of the great fluctuations in the herring fishery on the west coast of Sweden

Shows fluctuations not due to changes in hydrographic conditions, but to changes in strength of stock of the North Sea bank herring.

M

Stefánsson, U. (1960)

61-06103

Rit Fiskid., 2 (8) : 18 p.

Temperature at 20 meters in Icelandic waters in May-June 1950-1959

Description of the mean temperatures and their regional variations at 20 m depth in Icelandic waters during the months of May and Jun., 1950 to 1959, and the description of year to year variations of the temperature at the same depth and period.

M

Nanda, J. N. (1960)

61-06104

J. geophys. Res., 65 (6) : 1815-20

The origin of microseisms

Suggestion that the microseisms are caused by the action of suitably oriented winds with rough sea surface.

M

Sengel, P. (1961)

61-06105

C.R. Acad. Sci., Paris, 252 (23) : 3666-8

Survie en culture *in vitro* de divers organes d'invertébrés marins adultes (Survival in *in vitro* culture of various organs of adult marine invertebrates)

Culture of various organs of *Barnea candida* and *Ciona intestinalis* by various methods

F

Wulfert, K. (1960)

61-06106

Arch. Hydrobiol., 56 (4) : 311-33

Die Rädertiere saurer Gewässer der Dübener Heide—2. Die Rotatorien des Krebscherentümpels bei Winkelmühle (Rotifers of the acid waters of the Dübener Heide—2. Rotifers of the Krebscherentümpel by Winkelmühle). En

Taxonomic list and descriptions of the spp. found.

F

Botan, E. A., J. J. Miller & H. Kleerekoper (1960)

61-06107

Arch. Hydrobiol., 56 (4) : 334-54

A study of the microbiological decomposition of nitrogenous matter in fresh water. De

Determination of the kinds and numbers of microorganisms concerned in the aerobic decomposition of nitrogenous matter in fresh water.

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61-06108
- Jannasch, H. W.** (1960)
Arch. Hydrobiol., 56 (4) : 355-69
 Versuche über Denitrifikation und die Verfügbarkeit des Sauerstoffes in Wasser und Schlamm (Investigations on denitrification and availability of oxygen in the water and mud). En
 Investigation of the influence of oxygen on denitrification and the availability of oxygen for the denitrifying bacteria.
- F
61-06109
- Bick, H.** (1960)
Arch. Hydrobiol., 56 (4) : 378-94
 Ökologische Untersuchungen an Ciliaten und anderen Organismen aus verunreinigten Gewässern (Ecological investigations on ciliates and other organisms from polluted waters). En
 In laboratory experiments with diluted sewage the chemical processes and the succession of organisms were investigated for 12 weeks. A description of the spp. and the number of organisms during the succession is given. Mainly the ciliates are examined.
- F
61-06110
- Brinkhurst, R. O.** (1960)
Arch. Hydrobiol., 56 (4) : 395-412
 Introductory studies on the British Tubificidae (Oligochaeta). De
 Description of spp. found.
- F
61-06111
- Illies, J.** (1960)
Arch. Hydrobiol., 56 (4) : 413-24
 Zur Kenntnis der neuen Plecopterenfamilie Abranchioperlidae (To the knowledge of the new Plecoptera family Abranchioperlidae). En
 In addition to a preliminary description of *Abranchioperla archiplatae* Illies from Chile, the diagnosis of the new family Abranchioperlidae is given.
- G
61-06112
- Tödt, F.** (1959)*
 Berlin, Verlag Walter de Gruyter & Co., 212 p.
 Elektrochemische Sauerstoffmessungen—Konzentrationsmessungen oxydierender und reduzierender Stoffe durch galvanische Modellelemente (Electro-chemical oxygen measurements—Concentration measurements of oxidizing and reducing matters by means of galvanic model elements)
- M
61-06113
- Austin, T. S.** (1958?)
Proc. Hawaii. Acad. Sci., 33 (1957-58)
 Seasonal variations in the oceanographic and the marine biological features in the waters of French Oceania (Marquesas)
 Notes on the seasonal variations of oceanographic conditions in relation to the seasonal occurrence and migrations of tunas.

- MF
61-06114
- Sjöblom, V.** (1960)
Suom. Kalastusl., 67 (3) : 111-23
 Kevät-ja syyskutuisista silakoista (On the spring and autumn spawning herring)

A review of the morphological and physiological differences of the two herring races and the variation of the stock sizes of both races in the Baltic.

- G
61-06115
- Lagom, T.** (1960)
Suom. Kalastusl., 67 (3) : 126-7
 Eräs happinäytteen ottotapa (A method of taking oxygen samples)

Description of the method of taking small oxygen samples with a syringe.

- F
61-06116
- Schmidt-Ries, H.** (1960)
Gewässer u. Abwässer, (26) : 118 p.

Untersuchungen über den Wärmehaushalt der Eifelmaare—3. Spezielle Beobachtungen und Messungen in den Bereichen des Pelagial und des Benthos (Investigations on the heat economy of the Eifel Lakes—3. Special observations and measurements in the pelagic and benthic zone)

Description of the temperature profiles in the lakes and their annual cycles.

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Dtsch. Fisch Ztg., 6 (12) : 370-2

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Determination of osmotic pressure of serum and body weight change after exposure of *Cymatogaster*, *Amphistichus* and *Micropterus*—NW Pacific—to experimental salinities. Special reference to *in vitro* culture of embryos of these viviparous fishes.

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 Topographie dynamique et courants généraux dans le bassin occidental de la Méditerranée (Golfe du Lion, Mer Catalane, Mer d'Alboran et ses abords, secteur à l'est de la Corse) (Dynamic topography and general currents in the western Mediterranean—Gulf of Lion, Catalan Sea, Alboran Sea and adjacent water, area to the east of Corsica)
 Ci 61-06204. Dynamic calculation based on data given in 61-06204.

M

June, F. C. & C. M. Roithmayr (1960)

61-06206

Fish. Bull., U.S., 60 (171) : 323-42

Determining age of Atlantic menhaden from their scales

Describes scales of *Brevoortia tyrannus* and summarizes results of examinations for the purpose of determining whether certain recognizable rings are reliable age marks.

F

Turner, R. D. (1958)

61-06207

Occ. Pap. Mollusks, 2 (22) : 153-80The genus *Hemitrochus* in Puerto Rico

Taxonomic description of spp. incl. *H. clenchi* n. sp. Issued also as: *Contr. Inst. Mar. Biol. Univ. Puerto Rico*, 1 (7).

M

Guest, W. C. & G. Gunter (1958)

61-06208

Tech. Summ. Gulf St. Mar. Fish. Comm., (1) : 40 p.The sea trout or weakfishes (genus *Cynoscion*) of the Gulf of Mexico

Characteristics of Otolithidae; distribution of *Seriphus* and *Cynoscion*; life history of *C. nebulosus*, habits of adults, parasitism, the commercial and sports fisheries in Gulf of Mexico; life-histories and utilization of the other *Cynoscion* spp.; bibliography.

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Lambou, V. W. & H. Stern, Jr. (1958)

61-06209

Proc. Conf. stheast. Ass. Game Comm., (12) : 169-75

Creel census methods used on Clear Lake Richland Parish, Louisiana

Describes a census, using a stratified random sampling design; primary purpose was to determine the effects of rough fish removal on sport fishing.

MF

Peterson, C. L. (1960)

61-06210

Bull. interam. trop. Tuna Comm., 4 (4) : 139-216

The physical oceanography of the Gulf of Nicoya, Costa Rica, a tropical estuary. *En Es*

Distributions of salinity, temperature, and oxygen based on approximately bimonthly surveys between the period Mar. 1952 to Dec. 1957 have been examined.

F

Cholnoky, B. J. (1958)

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Beiträge zur Kenntnis der südafrikanischen Diatomeenflora—2. Einige Gewässer im Waterberg-Gebiet, Transvaal (Contributions to the knowledge of diatom flora of South Africa—2. Some waters in the Waterberg Area in the Transvaal)

Short description of the lakes of collection, and taxonomic listing and description of the spp. found.

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- Helminthologic investigations of *Neochinorhynchus rutili* and *Crepidostomum farionis* invading *Salmo trutta m. fario* and *Leuciscus idus ab. orf.* in Tatra lakes.
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Tentative classification of small water bodies on the basis of the differentiation of the molluscan fauna
- Lists of molluscs occurring in different fresh water bodies and attempt to classify these waters according to the molluscs present.
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Expansion of cercariae of *Diplostomum spathaceum* Rud. 1819, a common parasite of fishes, in the littoral zone of the lake
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Próba zastosowania mas plastycznych do aparatury hydrobiologicznej (Attempt of using plastic mass for hydrobiological apparatus). En Ru
- Notes on the use of plexiglass for limnological apparatus.

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 Pokarm naturalny głowacza przęgopletwego (*Cottus poecilopus* Heckel) z potoku Poroniec (Food of the bullhead, *Cottus poecilopus* Heckel from the Poroniec River) En Ru
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 Comparison of lake types on the basis of occurrence of cladocerans and copepods.
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Bull. Pacif. Mar. Fish. Comm., (4) : 66 p.
 A study of annual and seasonal bathymetric catch patterns for commercially important groundfishes of the Pacific northwest coast of North America
- General description of fishery, factors affecting landings, fishing ground topography, collection and analysis of statistics for annual and seasonal catches, by depth, for spp. of *Parophrys*, *Eopsetta*, *Microstomus*, *Platichthys*, *Lepidopsetta*, *Ophiodon*, *Sebastes*, *Anoplopoma* and *Gadus macrocephalus*.
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 Report on the marine plants, bottom types and hydrography of the St. Lucie Estuary and adjacent Indian River, Florida
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Bamidgeh, 12 (1) : 3-5
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MF

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Hela, I. & Krauss, W. (1959)*Kieler Meeresforsch.*, 15 (2) : 125-43

Zum Problem der starken Veränderlichkeit der Schichtungsverhältnisse im Arkona-Becken (On the problem of great variability of stratification in Arkona Basin)

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MF

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Kändler, R. (1959)*Kieler Meeresforsch.*, 15 (2) : 145-56

Hydrographische Beobachtungen in der Kieler Förde 1952-57—2. Beitrag über langfristige Beobachtungen in der Kieler Förde (Hydrographical observations in the Kieler Förde 1952-57—2. Contribution to the long time series observations in Kieler Förde)

Annual changes of salinity and temperature, stratification and changes from year to year.

MF

61-06234

Ohl, H. (1959)*Kieler Meeresforsch.*, 15 (2) : 157-60

Temperatur- und Salzgehaltsmessungen an der Oberfläche des Kieler Hafens in den Jahren 1952 bis 1957—3. Beitrag über langfristige Beobachtungen in der Kieler Förde (Temperature and salinity measurements on the surface of the Kiel Harbour in the year 1952 to 1957—3. Contribution to the long time-series observations in Kieler Förde)

Description of the annual changes and changes from year to year.

MF

61-06235

Jacobi, G. (1959)*Kieler Meeresforsch.*, 15 (2) : 161-3

Salinitätswirkung des Seewassers auf die Enzymaktivität von *Ulva lactuca* (Influence of the salinity of sea water on the enzyme activity of *Ulva lactuca*)

M

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von Bismarck, O. (1959)*Kieler Meeresforsch.*, 15 (2) : 164-86

Versuch einer Analyse der die Stoffwechselintensität ("Ruheumsatz") von *Asterias rubens* L. beeinflussenden Faktoren (Attempt to analyse the factors affecting the intensity of metabolism of *Asterias rubens*)

Influence of temperature, oxygen, tension, salinity, feeding, maturity stage, etc., on the intensity of metabolism.

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Proc. roy. Soc., 153B (950) : 111-27
 Interrelations of photosynthesis and assimilation of elementary nitrogen in a blue-green alga

Study of kinetic relationships between assimilation of carbon and of nitrogen into cell of *Anabaena cylindrica* Lemm. demonstrated correlations between rates of two processes consonant with existence of biochemical connexions. Effects of light intensity, carbon-dioxide concentration and nitrogen concentration were studied at four temperatures by determination of changes in amounts of cell carbon and cell nitrogen in culture grown for 48 h.

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9. ERRATA AND ADDENDA to "EXPLANATION OF COVERAGE AND ARRANGEMENT" (contd.)

3. REFERENCES

3.1 Authors

Delete the heading "*Names and Abbreviations of Organizations*" and replace it by:

"Names and Abbreviations of Organizations and Projects"

Names and Abbreviations of Organizations and Projects

Delete the following:

EAFRO ..	..	East African Fisheries Research Organization
OEEC ..	..	Organization for European Economic Cooperation
OEEC/EPA ..	..	European Productivity Agency

Insert, in alphabetic order, the following:

ACC (ECOSOC) ..	..	Administrative Committee on Coordination
CEE ..	..	<i>see</i> EEC
EAFRO ..	..	East African Freshwater Fisheries Research Organization
EEC ..	..	European Economic Community Communauté Économique Européenne Comunidad Económica Europea
EFPW ..	..	European Federation for the Protection of Waters Fédération Européenne pour la Protection des Eaux Föderation Europäischer Gewässerschutz
FEPE ..	..	<i>see</i> EFPW
FEG ..	..	<i>see</i> EFPW
IAPT ..	..	International Association of Plant Taxonomy
ICC ..	..	International Computation Centre. (Supersedes from April 1962 the Provisional ICC (PICC)) Centre International de Calcul
IIOE ..	..	International Indian Ocean Expedition
ING ..	..	Index Nominum Genericorum
IOC (UNESCO) ..	..	Intergovernmental Oceanographic Commission
IPI ..	..	International Plant Index
ISA ..	..	Instrument Society of America (U.S.A.)
NODC ..	..	National Oceanographic Data Center (U.S.A.)
NWPFC ..	..	Northwest Pacific Fisheries Commission
OCDE ..	..	<i>see</i> OECD
OECD ..	..	Organization for Economic Cooperation and Development. (Supersedes from October 1961 OEEC) Organisation de Coopération et de Développement Économiques
UNSF ..	..	United Nations. Special Fund Fonds Spécial des Nations Unies Fondo Especial de las Naciones Unidas

3.5 *Titles*

Languages, English and native names and symbols

Insert, in alphabetic order, the following:

Maltese

Malti

Met

5. INDEXES

5.4 *Subject*

Insert as the third paragraph on page Ex 81 the following new paragraph:

"Entries dealing with physical and chemical oceanography are also indexed according to the recently revised Universal Decimal Classification 551.46 Physical Oceanography. The indexing is done by Dr. L. Otto through the cooperation of the Royal Netherlands Meteorological Institute, and under the general supervision of Dr. P. Groen. Dr. Groen was chairman of the committee of I.A.P.O. which revised the classification. Copies of this revision are available on application from the Present Chairman of the IAPO Committee, Dr. Model, Deutsches Hydrographisches Institut, Hamburg. This Section of the UDC is being assimilated into the FAO Decimal Classification for Aquatic Sciences and Fisheries, which will eventually be used for the entire subject indexing of CBASF."

Insert, at the end of "Modified (ICES) " Classification " Subject—Two Digit Code " (Ex 83) the following:

Universal Decimal Classification—Physical Oceanography

551.46 *Physical oceanography. Submarine topography*

Roughly corresponding in two digit subject code with:

.460	General aspects of Physical oceanography	2.1
.461	General features. Sea level and horizontal extent	2.2
.462	Submarine topography. Bottom forms	2.3
.463	Sea water. Physical properties of sea water	2.4
.464	Chemical properties of sea water. Chemistry of sea water	2.5
.465	Structure, dynamics and circulation of seas	2.6
.466	Sea waves and tides	2.7
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.468	Coastal oceanography and special oceanographic forms	2.9

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61-024er

Author: Transvaal. Provincial Administration (1958) *should read*
Groenewald, A. A. v. J. (1958)

61-024er
(60-2064)

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VOLUME 5—ADDENDA

61-133ad to 61-139ad

Title: An angler's guide to the yellow fishes of the Transvaal. Ne 61-133ad
(60-2064)

Annotation: Issued also as: *Veröff. Inst. Fisch. Humboldt-Univ.,* 61-134ad
Berl., (177). (61-00507)

Ref.: 2 (1) : 51-64 61-135ad

Annotation: Properties and functions of organs investigated in (61-02268)
Procambarus clarkii (Girard) and *Panulirus interruptus* (Randall).
New terminology proposed for specification of thoracic and
abdominal organs.

Ref.: 2 (2) : 90-9 61-136ad

Annotation: Labelled iodides, added to immersion water, are fixed (61-04022)
by larvae. Kinetics of binding and repartition of radioactivity
in tissues of ammocoetes were studied.

Ref.: 2 (1) : 65-75 61-137ad

Annotation: Serum, cranial fluid, perilymph, endolymph and jelly (61-02727)
from the ampullae of Lorenzini of *Raja* analysed for Na, K, Cl, and
urea.

Ref.: 2 (3) : 173-80 61-138ad

Annotation: Examined by chromatographic methods. Comparison (61-04622)
with *Homarus*.

Ref.: 2 (3) : 218-20 61-139ad

Annotation: Crabs, *Hemigrapsus nudus*, utilize glucose as an (61-04623)
oxidative substrate in all stages of the intermoult cycle, as shown
by isotopic labelling experiments.

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 Révision du genre *Euplotes*, fondée sur la comparaison des structures superficielles (Revision of the genus *Euplotes*, based on comparisons of the superficial structures)
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 Contribution to the comparative physiology and genetics of the European Salmonidae—3. Temperature resistance at different ages
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 Laboratory experiments on the growth of *Tilapia* spp.—1. The value of various foods
 Describes tests of relative value of several foods fed to *Tilapia esculenta* fry, all of which were reared from a single batch of eggs.
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61-06297
- Fish, G. R.** (1960)
Hydrobiologia, 15 (1-2) : 161-78
 The comparative activity of some digestive enzymes in the alimentary canal of *Tilapia* and perch
 Presents data on digestion in *Tilapia mossambica*, *Perca fluviatilis* and some comparisons with *Zoarcas viviparus*, *Salmo trutta*, *Tinca tinca* and *Ctenopharyngodon idellus*.
- F
61-06298
- Gledhill, T.** (1960)
Hydrobiologia, 15 (1-2) : 179-88
 The Ephemeroptera, Plecoptera and Trichoptera caught by emergence traps in two streams during 1958
 Captures from a high mountain stream are compared with those from a warmer lower stream—both in England.
- F
61-06299
- Alm, G.** (1960)
Svensk Fisk. Tidskr., 69 (6-7) : 82-7
 Rödningfisket i Vättern och orsakerna till dess fluktuationer (The fishery for char in Lake Vättern and reasons for its fluctuations)
 Growth of the fish and distribution of the sizes and the catches and variation of the catches.

F
61-06300

Molin, G. (1960)
Svensk Fisk. Tidskr., 69 (6-7) : 89-92
 Färg—Fisklighet (Colour and fishability)

Results of the experiments with differently coloured nets and their ability to catch various fish spp. in different lakes.

MF
61-06301

Ryhänen, R. (1960)
Svensk Fisk. Tidskr., 69 (6-7) : 94-5
 Laxöringlek i insjöar (The spawning of sea trout in the lakes)

Notes on the observations of trout spawning in the lakes and in the Baltic Sea.

M
61-06302

Henriquez, O. S. (1960)
Caribbean, 14 (4) : 62-4, 100
 Aruba depends on sea-water

Description of sea-water purification units and supply of fresh-water.

M
61-06303

Zaneveld, J. S. (1960)
Caribbean 14 (4) : 65-8
 Probing Caribbean waters

Describes the marine environment of Curaçao, and the facilities of Caribbean Marine Biological Institute recently built there.

M
61-06304

Anon. (1960)
Caribbean, 14 (4) : 97
 Fisheries survey to begin soon—Surinam

Short note on deep-sea fishing exploration to be soon started.

M
61-06305

Anon. (1960)
S. Afr. Shipp. News Fish. Ind. Rev., 15 (4) : 59
 Trawling industry achieves a record catch for seventh successive year

Brief statistical review of trawl fishery; notes on pilchard and maasbanker catch; and status of pelagic shoal fishing at Walvis Bay.

M
61-06306

Anon. (1960)
S. Afr. Shipp. News Fish. Ind. Rev., 15 (4) : 61
 Research boats test rock lobster traps

Ill. notes on construction of a collapsable new trap and brief account of results of tests.

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61-06307
- EIFAC** (1960)
Rome, FAO, 58 p.
First session, Dublin (25-30 April 1960)—Report
- Contains historical introduction, general account of session—constitutional matters; general review of European inland fisheries problems. Annexes list participants and documents, agenda, rules of procedure, texts of opening statements.
- F
61-06308
- Das, S. M.** (1960)
Curr. Sci., 29 (6) : 220
High altitude fisheries with special reference to Kashmir
- Considers possible cultivation of the Himalayan trout, *Schizothorax*, and its hybrids with *Oreinus* (*Plagiostomus*). Possible introduction of *Cyprinus carpio*, *Salmo trutta fario* and *S. gairdneri*.
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61-06309
- Srinivasan, K. S.** (1960)
Curr. Sci., 29 (6) : 239-40
Report on *Cerataulus turgidus* Ehr. from Indian waters
- Diatom reported for first time from region, Chilka Lake, Orissa.
- F
61-06310
- Gopalakrishnan, V. & P. D. Gupta** (1960)
Curr. Sci., 29 (6) : 240
An eye disease which causes mortality of the fish *Catla catla* (Hamilton and Buchanan)
- Symptoms of specific disease in West Bengal stock; may be bacterial or virus; experiments on control by aeration and lime addition, removal of decaying matter from water, disinfection with permanganate.
- F
61-06311
- Anon.** (1960)
Curr. Sci., 29 (6) : 247
Water discharge of world rivers
- Note on new map compiled by Soviet hydrologist M. Lvovich. Drainage from various land masses into each ocean.
- MF
61-06312
- Baggerman, B.** (1960)
J. Fish. Res. Bd Can., 17 (3) : 295-322
Salinity preference, thyroid activity and the seaward migration of four species of Pacific salmon (*Oncorhynchus*)
- Chum, pink, coho and sockeye changed preference from fresh to salt water at onset of seaward migration and maintained this throughout migration season. At the end of this period coho and sockeye changed preference from salt to fresh water if retained in fresh water, indicating a readaptation to this medium. Chum and pink fry did not show this.

- MacLeod, R. A., R. E. E. Jonas & E. Onofrey (1960) MF
J. Fish. Res. Bd Can., 17 (3) : 323-35 61-06313

A biochemical study of coho salmon (*Oncorhynchus kisutch*) maturing sexually in an aquarium

Migrating salmon captured near their entry into fresh water underwent sexual maturation when confined in an aquarium. Analyses of skeletal muscle, lateral line muscle, kidney, liver, heart, milt and roe for fat, protein and water, and skeletal muscle for sodium and potassium were made. Blood was analysed for total protein, non-protein nitrogen, amino acids, glucose, sodium and potassium. Respiratory rates and glycolytic activities of the tissues analysed were also determined.

- Strickland, J. D. H. & K. H. Austin (1960) M
J. Fish. Res. Bd Can., 17 (3) : 337-45 61-06314

On the forms, balance and cycle of phosphorus observed in the coastal and oceanic waters of the northeastern Pacific

Date required for determination of various forms of phosphorus are discussed. Precision by modified Hansen-Robinson perchloric oxidation method evaluated and results given for particulate phosphorus and for soluble inorganic and organic phosphorus.

- Wood, J. D., D. W. Duncan & M. Jackson (1960) MF
J. Fish. Res. Bd Can., 17 (3) : 347-51 61-06315

Biochemical studies on sockeye salmon during spawning migration—11. The free histidine content of the tissues

During spawning migration of Fraser River *Oncorhynchus nerka*, the histidine decreased to small fraction of initial value in some tissues but not in others.

- Tabata, S. (1960) M
J. Fish. Res. Bd Can., 17 (3) : 353-70 61-06316

Characteristics of water and variations of salinity, temperature, and dissolved oxygen content of the water at ocean weather station "P" in the northeast Pacific Ocean

Vertical distribution of these factors examined for water characteristics, and deviations about their mean values. Based on surveys every alternate six-weeks, Aug. 1956 to Jul. 1958, incl. data above the depth of 1500 m. Temperature-salinity diagrams. Causes of variations are discussed.

- Tomlinson, N., V. M. Creelman & K. G. Reid (1960) X
J. Fish. Res. Bd Can., 17 (3) : 371-6 61-06317

The phosphorus-containing fractions of sterile lingcod muscle during storage at 0°C¹

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- Trites, R. W. (1960)** MF
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J. Fish. Res. Bd Can., 17 (3) : 377-408
An oceanographical and biological reconnaissance of Kennebecasis Bay and the Saint John River estuary

Preliminary survey in 1957-58 as part of International Passamaquoddy Fisheries Board Program.

- Legaré, J. E. H. & D. C. Maclellan (1960)** M
61-06319
J. Fish. Res. Bd Can., 17 (3) : 409-48

A qualitative and quantitative study of the plankton of the Quoddy Region in 1957 and 1958 with special reference to the food of the herring

- Fridthjof, J. (1958)** MF
61-06320
Rep. FAO/E.T.A.P., (694) : 24 p.

Informe al Gobierno de Mexico sobre el consumo y la distribución del pescado en los mercados (Report to the government of Mexico on consumption and distribution of fish on the market)

Report on FAO project carried out under UN Expanded Technical Assistance Programme. Reviews fish marketing in Mexico, reports on activities developed for increasing consumption and recommends future lines of action.

- Christmas, J. Y., G. Gunter & E. C. Whatley (1960)** M
61-06321
Spec. sci. Rep. U.S. Fish. Wildl. Serv., (339) : 10 p.

Fishes taken in the menhaden fishery of Alabama, Mississippi and eastern Louisiana

A study was made of the fishes other than menhaden taken by menhaden purse seiners in waters around the mouth of the Mississippi River and in Mississippi Sound during the 1958 and 1959 seasons. In numbers of fish, more than 97% of the sampled catch were menhaden. The following 10 spp., given in order of their abundance, made up over 90% of the other fishes caught: *Mugil cephalus*, *Micropogon undulatus*, *Leiostomus xanthurus*, *Dorosoma petenense*, *Bagre marina*, *Galeichthys felis*, *Cynoscion arenarius*, *Poronotus triacanthus*, *Cynoscion nothus* and *Lagodon rhomboides*.

- Taranto. Istituto Sperimentale Talassografico (1958)** MF
61-06322
Thalassia jon., 1 : 134 p.

Contains 61-06323 to 61-06328, and incl. brief report on activities of the Thalassographic Institute of Taranto in the biennium 1956-57—with list of publications, and a note on a *Balaenoptera physalus* stranded in Jan. 1957 on the Island of Ponza, with identification of its parasites, and account of strandings of cetaceans in this area.

- MF
61-06323
- Parenzan, P. (1958)**
Thalassia jon., 1 : 5-59
 Indagini eseguite per il disciplinamento giuridico, tecnico e sanitario della molluschicoltura e del commercio dei molluschi eduli in Italia (Investigations carried out for the juridical, technical and sanitary discipline of mollusc culture and commerce of edible molluscs in Italy)
- M
61-06324
- Vardaro, E. (1958)**
Thalassia jon., 1 : 61-4
 Sul rapporto solfato-cloruri nelle acque del Mar Piccolo, del Mar Grande e del Golfo di Taranto (On the sulfate-chlorite relation in the Little Sea, the Big Sea and the Gulf of Taranto)
- M
61-06325
- Sebastio, C. (1958)**
Thalassia jon., 1 : 65-72
 Determinazione dei caratteri di vitalità e freschezza delle ascidie eduli (Determination of characters of vitality and freshness of edible ascidians).
 En Fr
 Various observations on *Microcosmus* sp. from Taranto.
- M
61-06326
- Parenzan, P. (1958)**
Thalassia jon., 1 : 73-87
 Un caso di "teratocenosi" ittica nel Mar Piccolo di Taranto (A case of fish "teratocenosis" in the Little Sea of Taranto)
 Observations on specimens of *Gobius ophiocephalus*. Reviews occurrences reported on other fishes; discusses the abnormality generally.
- M
61-06327
- Parenzan, P. (1958)**
Thalassia jon., 1 : 89-115
 Ricerche sulla possibilità di valorizzazione del sedimento del Mar Piccolo di Taranto (Investigations of the possible valorization of the sediments in the Little Sea of Taranto)
- M
61-06328
- Sarno, M. (1958)**
Thalassia jon., 1 : 117-21
 Bonifica del Mar Piccolo (The dredging of the Little Sea)
- MF
61-06329
- Taranto. Istituto Sperimentale Talassografico (1959)**
Thalassia jon., 2 : 139 p.
 Contains 61-06330 to 61-06338, and also "Notices"; first deep trawling and dredging cruise in Ionian Sea, by 'Titano'; experiments on action of electricity on marine animals; participation in meetings, exchanges of periodicals, relations with FAO, various research studies; list of collaborating systematists; studies of vitality and edibility of ascidians and echinoderms; development of Museum of the Institute.

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- Parenzan, P.** (1959)
Thalassia jon., 2 : 3-14
I fondi a *Caulerpa* del Mediterraneo (Ionio e Tirreno) (The *Caulerpa* beds of the Mediterranean—Ionian and Tyrrhenian Seas)
- M
61-06331
- Parenzan, P.** (1959)
Thalassia jon., 2 : 15-45
Biocenologia bentonica: il fondo ad ascidie (Benthonic biocoenology: ascidian beds)
- MF
61-06332
- Pierpaoli, I.** (1959)
Thalassia jon., 2 : 46-51
L'epifittismo nelle alghe—Nota sugli ambienti tarantino e anconetano (The epiphytism in algae—Note on the environment of Taranto and Ancona)
- M
61-06333
- Bellan, G.** (1959)
Thalassia jon., 2 : 52-5
Au sujet de quelques polychètes récoltées au cours d'un dragage profond (On some polychaetes found while dredging). En It
- M
61-06334
- Parenzan, P.** (1959)
Thalassia jon., 2 : 57-69
Effetti della corrente elettrica sugli animali marini—1. Azione della corrente alternata su *Carcidines maenas* (L.) (The effect of electric current on marine animals—1. Action of alternate current on *Carcidines maenas* (L.))
- M
61-06335
- Milo di Villagrazia, P.** (1959)
Thalassia jon., 2 : 70-81
Recenti progressi dei metodi d'analisi con l'interferometria ottica, per la determinazione della salinità delle acque marine (Recent progress in the methods of analysis with optic interferometry for the determination of the salinity of marine waters). Fr De
- M
61-06336
- Sebastio, C.** (1959)
Thalassia jon., 2 : 82-108
Sugli echinodermi eduli dei mari italiani e determinazione dei loro caratteri de vitalità e freschezza (On the edible echinoderms of Italian seas and determination of their characters of vitality and freshness). En Fr
- M
61-06337
- Parenzan, P.** (1959)
Thalassia jon., 2 : 109-36
Il fondo a deposito neritico di Vivara (The sea bottom with neritic sediment at Vivara)

Study of *Paracentrotus*, *Arbacia*, *Echinus* and *Sphaerechinus* spp.

- M
61-06338
- Fierro, G. (1959)**
Thalassia jon., 2 : 137-9
 Microfauna del sedimento del Mar Piccolo di Taranto—Nota preliminare
 (The microfauna of the sediment in the Little Sea of Taranto—Preliminary Note)
- MF
61-06339
- Waldichuk, M. (1960)**
Circ. biol. Sta. Nanaimo, (57) : 13 p.
 Pulp mill pollution in British Columbia
- Discusses some of the principles of pollution of natural waters by pulp mill effluents, and how pollution can be avoided or kept to a minimum, especially in coastal sea waters.
- M
61-06340
- Zenkevich, L. A. (1960)**
Priroda, Moskva, 49 (4) : 56-63
 Uspekhi sovremennoi okeanologii (Advances in modern oceanology)
- M
61-06341
- Bogdanov, D. V. (1960)**
Priroda, Moskva, 49 (4) : 79-84
 K beregam Afriki (On the coasts of Africa)
- MF
61-06342
- Gorbunova, N. N. (1960)**
Priroda, Moskva, 49 (6) : 96-7
 Zabota o potomstve u ryb (Provision for progeny in fish)
- M
61-06343
- Agabekov, M. G. & A. A. Sultanov (1960)**
Priroda, Moskva, 49 (6) : 115-6
 Vulkan sredi moria (A volcano amidst the sea)
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61-06344
- Reynoldson, T. B. (1960)**
Oikos, 11 (1) : 125-41
 A quantitative study of the population biology of *Polycelis tenuis* (Ijima)
 (Turbellaria, Tricladida)
- Ci 582922, 59-1280 and 59-7543. Observations of a pond at Bangor, N. Wales, 1956-57.
- M
61-06345
- Scott, A. (1960)**
Oikos, 11 (1) : 153-60
 The fauna of the sandy beach, Village Bay, St. Kilda: a dynamical relationship
- Data regarding impermanence of beach, algal growth, *Eurydice* abundance.

- F
- Nielsen, E. S.** (1960) 61-06346
Oikos, 11 (1) : 168-9
 [Review]
- Re 61-00788.
- M
- Skopintsev, B. A. & S. N. Timofeeva** (1960) 61-06347
Dokl. Akad. Nauk S.S.S.R., 133 (3) : 677-9
 Soderzhanie organicheskogo ugleroda v vode severovostochnoi chasti Atlanticheskogo okeana (Content of organic carbon in the waters of the north-eastern part of the Atlantic)
- M
- Vinogradova, Z. A.** (1960) 61-06348
Dokl. Akad. Nauk S.S.S.R., 133 (3) : 680-2
 K izucheniiu biokhimicheskogo sostava antarkticheskikh chernoglazok *Euphausia superba* Dana (A contribution to the study of antarctic *Euphausia superba* Dana)
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- Zhirmunskii, A. V.** (1960) 61-06349
Dokl. Akad. Nauk S.S.S.R., 133 (3) : 683-5
 Chuvstvitel'nost' chernomorskikh midii i ikh mertsatel'nogo epitallia k deistviu povyshennoi temperatury (The sensitivity of the Black Sea *Mytilus* and its ciliated epithelium to elevated temperatures)
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- Barannikova, I. A. & A. L. Polenov** (1960) 61-06350
Dokl. Akad. Nauk S.S.S.R., 133 (3) : 719-21
 Ekologo-gistofiziologicheskii analiz preoptiko-gipofizarnoi neurosekretnoi sistemy u osetrovyykh (An ecological and histophysiological analysis of the preoptic-pituitary neurosecretory system in Acipenseridae)
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- Kliashtorin, L. B.** (1960) 61-06351
Dokl. Akad. Nauk S.S.S.R., 133 (4) : 951-3
 Rezul'taty opredelenii pervichnoi produktsii v Atlanticheskom okeane (The results of determinations of original production in the Atlantic)
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- Anokhina, L. E.** (1960) 61-06352
Dokl. Akad. Nauk S.S.S.R., 133 (4) : 960-3
 O svyazi plodovitosti, izmenchivosti razmerov i zhirnosti belomorskoi sel'di *Clupea harengus pallasii maris-albi* Berg (On the relation between fertility, variation in the size of eggs and fat content in the White Sea *Clupea harengus pallasii maris-albi* Berg)
- M
- Petipa, T. S., L. I. Sazhina & E. P. Delalo** (1960) 61-06353
Dokl. Akad. Nauk S.S.S.R., 133 (4) : 964-7
 Vertikal'noe raspredelenie zooplanktona v Chernom more v svyazi s gidrologicheskimi usloviyami (Vertical distribution of zooplankton in the Black Sea, as dependent on hydrological conditions)

- F
61-06354
- Järvekülg, A.** (1960)
Toim. Eesti NSV Tead. Akad. (biol.), (1) : 27-34
Ilyodromus estonicus n. sp.—Novyi presnovodnyi rakushkovyi rachok iz Estonii (*Ilyodromus estonicus* n. sp.—A new fresh water ostracod in Estonia).
 De Eesti
 Description of the sp.
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61-06355
- Mäemets, A.** (1960)
Toim. Eesti NSV Tead. Akad. (biol.), (1) : 35-40
 Täiendavaid andmeid vesikirbuliste (Cladocera) liigi *Alona estonica* Kohta
 (Complementary data on the cladoceran species *Alona estonica*). En Ru
 Detailed description of the sp. and its distribution.
- M
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Toim. Eesti NSV Tead. Akad. (biol.), (1) : 70-3
 Merekalanduslikust uurimistööst ja selle arendamise perspektiividest Eesti NSV-s (Investigations on the marine fisheries and the prospects of the further development of marine fisheries in Estonian SSR)
 Notes on the programme of past investigations with principal results, and prospects of the future development of the fishery and its research.
- F
61-06357
- Tisdall, A. L.** (1959)
J. Soil Wat. Conser., 14 (1) : 21-5
 Chemical control of evaporation in Australia
 SFA 4 (2) 2324. Discusses treatment of reservoirs with cetyl alcohol.
- F
61-06358
- Schoffman, R. J.** (1959)
J. Tenn. Acad. Sci., 34 (1) : 73-7
 Age and rate of growth of the bluegills in Reelfoot Lake, Tennessee
 SFA 4 (2) 2325.
- F
61-06359
- Nelson, E. M.** (1959)
Amer. Midl. Nat., 61 (1) : 245-52
 The embryology of the swim bladder in the common sucker *Catostomus commersoni* (Lacépède)
 SFA 4 (2) 2337. Describes the development of the swim bladder in *Catostomus commersoni*.
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61-06360
- Underhill, J. C. & D. J. Merrell** (1959)
Amer. Midl. Nat., 61 (1) : 133-47
 Intra-specific variation in the bigmouth shiner (*Notropis dorsalis*)
 SFA 4 (2) 2345.

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Ettinger, M. B. et al. (1958)
Cincinnati, Ohio, 83 p.

A critical review of the literature of 1957 on water pollution

SFA 4 (2) 2400. Bibliographic review under the headings: biology, microbiology, chemistry, oxygen sag and stream self-purification, stream studies and surveys, stream standards, effects on water supplies, and abatement and control.

MF

61-06362

Beskrovnyi, A. M. & O. A. Sukacheva (1959)
Dopov. Akad. Nauk ukrain. R.S.R., (1) : 88-92

Gistologicheskii analiz gonad Chudskogo siga, akklimatiziruyemogo v vodoyemakh khar'kovskoy oblasti (A histological analysis of the gonads of Lake Chudskoye whitefish, acclimatized in Khar'kov district basins)

SFA 4 (2) 2408.

F

61-06363

Zhuravel', P. A. (1959)
Dopov. Akad. Nauk ukrain. R.S.R., (1) : 95-7

Novaya dlya systemy Dnepra mizida—*Hemimysis anomala* Sars v Dneprovskom vodokhranilishche (A mysid that is new for the Dnepr system—*Hemimysis anomala* Sars in the Dnepr reservoir)

SFA 4 (2) 2409.

F

61-06364

Puchkov, V. G. (1959)
Dopov. Akad. Nauk ukrain. R.S.R., (1) : 98-100

Lichinki podsemeystva Heterogastrinae (Heteroptera Lugaeidae) fauny Ukrainiskoy SSR (Larvae of the subfamily Heterogastrinae—Heteroptera, Lugaeidae—of the Ukrainian fauna)

SFA 4 (2) 2411. Gives general morphological characteristics of larvae. Describes eight different spp.

MF

61-06365

USFWS (1960)
Fish. Leaflet, Wash., (336 rr) : 44 p.

Commercial fisheries outlook

Co 61-00687.

MF

61-06366

Bassindale, R. & R. B. Clark (1960)
Field Stud., 1 (2) : 1-22

The Gann Flat, Dale: studies on the ecology of a muddy beach

III. description of area of study. Gives in chart form the results of survey of flora and fauna. Incl. notes on distribution of *Arenicola marina*, *Lanice conchilega*, *Sabella pavonina*, *Branchiomma resiculosum*, *Owenia fusiformis*, *Nephtys* spp. and *Mytilus* spp.

Nakazawa, S. (1960)M
61-06367*Naturwissenschaften*, 47 (14) : 327-8

Dissociation of animal tissues by a toxic substance obtained from starfish

Experiments on the influence of toxic substance from *Asterias amurensis* upon polyps of *Hydra vulgaris*, *Aurelia aurita*, and blastula of *Strongylocentrotus pulcherrimus*.

Kappanna, A. N. et al. (1960)M
61-06368*Curr. Sci.*, 29 (7) : 271-2

Minor constituents of sea water

Tabulates data; discusses regional and seasonal variations; analysis of water from Indian coast—Bhavnagar—, Mar.-Apr. 1959. Sr, B, F, Si, Ru, Li, Al, Fe, Cu.

Ganapati, P. N. & M. V. L. Rao (1960)M
61-06369*Curr. Sci.*, 29 (7) : 275-6

On some crustacean wood-borers from Andamans

Preliminary report on *Limnoria* spp. from submerged planks at Chatham Island, Timber-Yard.

Raj, B. S. Dorai (1960)M
61-06370*Curr. Sci.*, 29 (7) : 277-8On the production of underwater sound by *Therapon jarbau*

Anatomical and oscillograph study of Indian fish known to fishermen as "Keechan"—Tamil: a sound producer.

ÓhEocha, C. & F. T. Haxo (1960)

61-06371

Biochim. biophys. Acta, 41 (3) : 516-20

Some atypical algal chromoproteins

Biliproteins of two varieties of *Smithora* (*Porphyra*) *naiadum*, collected at La Jolla, California, and Pacific Grove, California, growing epiphytically on the sea grass *Phyllospadix*, were compared under identical conditions of extraction and chromatographic isolation. *In vivo* phycoerythrin of the three *Phormidium* spp. examined.

Miegel, H. (1960)F
61-06372*Gewässer u. Abwässer*, (27) : 7-18

Die Kleine Maräne (*Coregonus albula* L.) in rheinisch-westfälischen Talsperren (The small whitefish, *Coregonus albula* L., in the water reservoirs of Rheinland-Westfalen)

Results of transplantation, growth feeding habits and management of the fish resources.

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Gewässer u. Abwässer, (27) : 27-54
 Copepoden (Crustacea, Entomostraca) aus Nicaragua und Südperu
 (Copepods, Crustacea Entomostraca, from Nicaragua and South Peru)
- MF
61-06374
- Chandy, M. & M. G. George (1960)**
Proc. nat. Inst. Sci. India, 26B (3) : 126-34
 Further studies on the alimentary tract of the milkfish *Chanos* in relation
 to its food and feeding habits
- Pharyngeal pockets, a spiral mucosal folds in the oesophagus, a spacious
 corpus with giant mucous cells and massive gastric glands and a highly
 muscular triturating pylorus are special adaptations to a diet of algae and
 molluscs mixed with mud and sand particles. Feeding habits change from
 fry, through juvenile to adult, and the adult fish is not exclusively a plankton
 feeder.
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61-06375
- Seshachar, B. R. & S. R. V. Rao (1960)**
Proc. nat. Inst. Sci. India, 26B (3) : 135-8
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 Pleurogonia)
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61-06376
- Ferraro, S. (1959)**
Pubbl. Ist.talassogr. Trieste, (359) : 19 p.
 Tabelle di previsione delle maree per Trieste e l'Adriatico settentrionale
 per l'anno 1960 (Tables of tide predictions for Trieste & northern Adriatic
 for the year 1960)
- M
61-06377
- Mosetti, F. (1959)**
Pubbl. Ist.talassogr. Trieste, (360) : 74 p.
 Lo stato attuale delle conoscenze sulle maree dell'Adriatico (The present
 state of knowledge of the Adriatic tides). En
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- 52 marine sediment samples from Prince of Wales Strait and Amundsen Gulf have been analysed for properties such as grain size and rock and mineral composition.
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A method using polyethylene tubing of various sizes and a flow of water commensurate with the size of the specimen has been employed to determine the resting metabolic rates of large fish.

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J. Mar. Res., 17 : 412-23

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- Tully, J. P.** (1958) MF
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Evaluation of measurement errors and examination of the effects of errors on computed values of geostrophic current.

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Hormones in fish

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Comparative review of Myxinoidea and Petromyzontidae; discussion of freshwater and sea-water osmoregulation in lampreys; evolutionary considerations.

- MF
61-06523
- Zuckerman, S.** (1960)
Symp. zool. Soc. Lond., (1) : 15-6

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Symp. zool. Soc. Lond., (1) : 17-32
Adrenocorticosteroids in fish

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- Re 61-06525. Participants: P. M. J. and Mrs. Woodhead and author; refers to *Gadus morhua*.
- D’Ancona, U. (1960)** MF
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Symp. zool. Soc. Lond., (1) : 74-5
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- Re 61-06527, with additional references.
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61-06529
Symp. zool. Soc. Lond., (1) : 77-102
Reproductive endocrinology in cyclostomes and elasmobranchs
- Review, for these two groups, under headings: gonads, secondary sexual characters, pituitary, pituitary and steroid hormones and reproduction.
- Jones, I. C. (1960)** MF
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Symp. zool. Soc. Lond., (1) : 102-3
General discussion of “Reproductive endocrinology in cyclostomes and elasmobranchs”
- Re 61-06529; participation by Sage and J. M. Dodd.
- Ball, J. N. (1960)** MF
61-06531
Symp. zool. Soc. Lond., (1) : 105-34
Reproduction in female bony fishes
- Review of functions of pituitary, adrenal, thyroid, and ovarian endocrines. Extensive bibliography.

- Jones, I. C. (1960)** MF
61-06532
Symp. zool. Soc. Lond., (1) : 135
General discussion of "Reproduction in female bony fishes"

Re 61-06531. Participant: Mrs. Woodhead.

- Marshall, A. J. (1960)** MF
61-06533
Symp. zool. Soc. Lond., (1) : 137-51
Reproduction in male bony fish

General review of subject: hypothalamic-pituitary axis; endocrine elements in testis; environmental control. Discusses also reproductive behaviour in fishes and birds.

- Amoroso, E. C. (1960)** MF
61-06534
Symp. zool. Soc. Lond., (1) : 153-81
Viviparity in fishes

General review of phenomenon, its evolution and significance; selachians, Poeciliidae, Anablepiidae, Goodeidae, Jenynsiidae, Blenniidae and Embiodocidae, Scorpaenidae.

- Barrington, E. J. W. (Ed.) (1960)** MF
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Symp. zool. Soc. Lond., (2) : 120 p.
Cyclical activity in endocrine systems

Co 61-06521. Contains editor's preface and 61-06536 to 61-06540.

- Matty, A. J. (1960)** MF
61-06536
Symp. zool. Soc. Lond., (2) : 1-15
Thyroid cycles in fish

A general review of this subject under main headings: evidence for cyclical activity; thyroid and reproduction; problem of thyroid function. Genera referred to incl. *Misgurnis*, *Clupea*, *Gadus*, *Phoxinus*, *Plecoglossus*, *Salmo*, *Fundulus*, *Lampetra*, *Lebistes*, *Myxine*, *Scarus*, *Sparisoma*, *Rutilus*, *Protopterus*, *Platyhthys*, *Oncorhynchus*, *Anguilla*, *Esox*, *Acipenser*, *Torpedo*, *Petromyzon*, *Xiphophorus* and *Scyliorhinus*.

- Swift, D. R. (1960)** MF
61-06537
Symp. zool. Soc. Lond., (2) : 17-27
Cyclical activity of the thyroid gland of fish in relation to environmental changes

Ci 61-06536. Methods of measuring thyroid activity; effects of solute concentration, light and temperature; annual cycle. Refers to *Gadus*, *Phoxinus*, *Fundulus*, *Salmo* and *Umbra*.

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 Some problems of adeno-hypophysial relationships in cyclostomes and fish
 Ci 61-06536 and 61-06537. General review: introduction; cyclostomes; teleosts. Refers to *Fundulus*, *Salmo*, *Lampetra*, *Asiyanax*, *Phoxinus*, *Protopterus*, *Hippocampus*, *Rhodeus*.
- M
61-06539
- Wells, M. J.** (1960)
Symp. zool. Soc. Lond., (2) : 87-107
 Optic glands and the ovary of *Octopus*
 Anatomy, evidence for hormonal control, by optic glands, of maturation; effects of their removal or enlargement by surgical treatment; normal and precocious maturation. Maturity of males. Reviews literature and presents original results.
- MF
61-06540
- Carlisle, D. B.** (1960)
Symp. zool. Soc. Lond., (2) : 109-20
 Moulting cycles in Crustacea
 Ci 59-6509. Classification of stages; endocrine control; modifications of cycle; comparison with vertebrates. Literature review. Refers to *Cancer*, *Homarus*, *Carcinus*, *Pandalus*, *Lysmata*.
- MF
61-06541
- Training Centre on Fish Processing Technology, Quezon City, Philippines, 6 March-15 April 1961** (1961)
 Rome, FAO, mimeo, 107 p.
 Laws and regulations concerning handling, processing, distribution, standards, quality control and inspection of fresh and frozen fish, canned fish and other processed fish products
 Compilation of material as per title from selected countries.
- MF
61-06542
- Borgstrom, G. & A. J. Heighway** (Ed.) (1961)
 London, Fish. News (Books) Ltd., 336 p.
 Atlantic Ocean fisheries
 Under four main sections contains papers on physical, biological, social and legal characters of the Atlantic; industrial developments by major nations fishing in this ocean; gives a review of USSR's effort in inland and marine fishing; lists scientific and English names of some 500 commercial fish. Incl. a glossary of terms and short summary of recommendations of Britain's recent committee of inquiry into her fishing industry. Contains 61-06543 to 61-06572.
- M
61-06543
- Carruthers, J. N.** (1961)
In 61-06542 : 1-17
 The Atlantic Ocean—North and south
 Semi-popular notes on size and depth of this ocean with remarks on bottom topography and related circulation; nature of the sea bed; surface currents; Gulf Stream; distribution of temperature and salinity. Incl. many tables and ill.

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Laevastu, T. (1961) M
61-06544
In 61-06542 : 18-39

Natural bases of fisheries in the Atlantic Ocean: their past and present characteristics and possibilities for future expansion

Contains a brief semi-popular review of the natural background of the fishery of the Atlantic Ocean, past and present, and its characteristics in different areas. The possibilities for future development of the fisheries are discussed.

Engholm, B. (1961) M
61-06545
In 61-06542 : 40-8

Fishery conservation in the Atlantic Ocean

Surveys the course of events to achieve maximum international cooperation in the commercial use of this ocean.

Winder, G. (1961) M
61-06546
In 61-06542 : 49-54

International territorial limits in relation to fishing

Reviews historical background of the territorial limits and presents a plain survey of growth of practice of observing these limits. Shows practical need for a common standard in the interest of international commerce and amity.

Hardy, A. C. (1961) M
61-06547
In 61-06542 : 55-63

Types of fishing ships working the Atlantic Ocean

Discusses trends in the evolution of new types of craft and fishing practices in order to secure bigger catches.

Burgess, J. (1961) M
61-06548
In 61-06542 : 64-8

Post-war trends towards improved fishing gear and equipment

Gives brief information on the improved fishing gear and equipment and summarizes the development achieved in this field.

Angerman, H., O. Lund & B. Rasmussen (1961) M
61-06549
In 61-06542 : 69-85

Norway's fishing industry

Section 2 : industrial development.

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| Anon. (1961)
<i>In</i> 61-06542 : 86-7
The fishing industry of Sweden

Section 2: industrial development. | M
61-06550 |
| Fruczek, Z., E. Kordyl & S. Łaszczyński (1961)
<i>In</i> 61-06542 : 88-96
Development and present state of Polish fisheries

Section 2 : industrial development. | M
61-06551 |
| Hass, P. G. (1961)
<i>In</i> 61-06542 : 97-105
The fishing industry of the Federal Republic of Germany

Section 2: industrial development. | M
61-06552 |
| Nørgaard, J. (1961)
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61-353me to 61-365me

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| WHO. 12/6/62
Brazzaville, Africa. 6 days
2nd Conference on onchocerciasis | F
61-353me |
| World Conference on National Parks. 30/6/62
Seattle, Wash., U.S.A. 8 days
1st Conference | MF
61-354me |
| International Conference on Radiocarbon Dating. 23/7/62
Cambridge, U.K. 6 days
5th Meeting | G
61-355me |
| ICC. 30/1/62
Paris, France. 4 days
1st General assembly | G
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| INPFC. Aug./62
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61-357me |
| European Association for Animal Production. 1/9/62
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| EEC. 22/10/62
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61-359me |
| CCTA. Oct./62
London, U.K.
7th Meeting of the Inter-African Phytosanitary Commission | F
61-360me |
| FAO. 8/10/62
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2nd Regional conference for Europe | G
61-361me |

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**Challenger Society/Representatives from Marine
Laboratories.** 25/10/62
Burnham-on-Crouch, Essex, U.K. 2 days
Meeting

MF
61-362me

Following papers will be presented: G. D. Wauch, "Biological and practical problems of oyster cultivation"; R. W. Butcher, "Methods of investigating marine μ flagellates"; A. Wheeler, "On the ecology of some Thames estuary fishes"; D. A. Hancock, "Starfish and mussels"; E. Edwards, "Biology and behaviour of the edible crab"; P. C. Wood, "Lobster storage and the bacterial disease Gaffkaemia"; E. Naylor, "Tidal and seasonal migrations of the shore crab *Carcinus moenas* L."; H. O. Bull, "The lobster"; A. C. Simpson, "Oil pollution and shellfish"; C. S. Davis, "The bottom fauna of the Blackwater estuary"; D. Key, "Shore ecology off Bradwell"; J. Rippon, "The use of bacterial tracers to follow water movements"; G. Parr, "The hydrography of the Blackwater estuary".

FAO. 17/11/62
Rio de Janeiro, Brazil. 11 days
7th Regional conference for Latin America

G
61-363me

FAO. 10/12/62
Rio de Janeiro, Brazil. 5 days
1st Meeting of the SW Atlantic Fishery Advisory Commission
Amendment to 61-330me.

M
61-364me

USFWS, Bureau of Commercial Fisheries. 19/12/62
? 3 days
Conference on clupeoid biology

M
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Buzzati-Traverso, A. A. &		Institution of Oceanography	
M. Bernhard (1960)	06596	(1959)	02907
Byars, J. A. (1960)	00035	California University. Scripps	
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<i>SIK Rep.</i> (1959)	01089 05071 01069	F (1959)	04366 04368
<i>S. Afr. Shipp. News Fish. Ind.</i>		I (1959)	04565 04363 04370
<i>Rev.</i> (1959)	02592	M (1959)	04354 04344 04346 01932
<i>S. Afr. Shipp. News Fish. Ind.</i>		N (1959)	04390
<i>Rev.</i> (1960)	03057 06305 06306	P (1959)	04350 04348
	05052	R (1959)	04372 04388
<i>S. Pacif. Bull.</i> (1960)		S (1959)	04384 04380
	00038 01481 01484	U (1959)	06724
<i>S. Pacif. Bull.</i> (1961)	00964	W (1959)	04361
<i>Stud. Cercet. biol. (Biol. anim.)</i>		C (n.d. 1959)	05507
(1959)	00398	E (d.u. 1959?)	04417
<i>Stud. Cercet. Biol. (veg.)</i> (1959)	00283	A (1960)	00378 01934 01940
<i>Svensk FiskTidskr.</i> (1959)	04735	B (1960)	01939
<i>Syren & Shipp</i> (1959)	03926	C (1960)	01366 01357 01364 01352
			01350
<i>Thalassia jon.</i> (1960)	01967 01968	D (1960)	06728
<i>Torry Res.</i> (1959)	01043	F (1960)	01935
<i>Trade News</i> (1959)	00635 00636	G (1960)	01936
	00638 to 00643	H (1960)	01937
<i>Trade News</i> (1960)	02914 02917	M (1960)	06722
	02916 03280 04605	P (1960)	01397 01401 04809 04991
<i>Trans. Amer. Fish. Soc.</i> (1960)	06424	R (1960)	06723 05656 04808
<i>Trans. Amer. geophys. Un.</i> (1959)		S (1960)	01387
	02945 02946 02947	T (1960)	01346 01343 00381
<i>Trans. Amer. geophys. Un.</i> (1960)		U (1960)	00377
	05551 05552	V (1960)	00380
<i>Trav. Cent. Rech. Étud. océanogr.</i>		W (1960)	06726
(1958)	00597	L (n.d. 1960?)	03303
<i>Unesco Chron.</i> (1960)	03346	F (1961)	06554 06561 06550
<i>Vestn. Akad. Nauk S.S.S.R.</i>		M (1961)	06567
(1958)	03114	S (1961)	06564
<i>Vestn. Akad. Nauk S.S.S.R.</i>			
(1960)	00372		
<i>Visserijwereld</i> (1959)	05069 05073		
	05074 05070		
<i>Wat. Res. News</i> (1961)	04663		
<i>West. Fish.</i> (1960)	01047		
<i>World Fish.</i> (1959)	03930 03931		
	03483 02056		
<i>World Fish.</i> (1960)	03641 03642		
	02561 02562 02563 02565		
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	03143 05039 02569 02570		
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ment)	05011		
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ANON. (Not in periodicals)			
B (1958)	04374		
C (1958)	04434		

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Pacific halibut fishing	03104	Alberta Resources Conference (1960)	202me
Physiology of the statocyst in crabs	05014	American Fisheries Society (1961)	045me
Physiology of the statocyst in <i>Octopus vulgaris</i>	05015	American Fisheries Society, Northeast Division (1962)	257me
Plankton	05016	American Geophysical Union (1961)	206me 087me
Pond life	04822	American Meteorological Society (1961)	091me
Quelques types de leptonacées—Eulamellibranches commensaux (Some types of leptons, commensal eulamellibranchs)	05006	American Meteorological Society (1962)	304me
Reti a strascico nella pesca delle sogliole (Beam-trawl for sole fishery)	03107	American Seafood Distributors' Association (1961)	026me
Salmon's struggle for survival	04825	American Society of Animal Production (1961)	185me
In the same boat	04818	American Society of Bacteriologists (1961)	017me
The seashore	00015	American Society for Cell Biology (1961)	199me
The story of menhaden	03105	American Society of Heating, Refrigerating & Air-Conditioning Engineers, Inc. (1961)	014me
Studien en marinen Nacktschnecken (Opisthobranchia) (Studies of marine snails—Opisthobranchia)	05019	American Society of Ichthyologists & Herpetologists (1961)	035me
Système circulatoire de l'alevin de truite (<i>Salmo irideus</i> Gibbons) (Circulatory system of trout fry, <i>Salmo irideus</i> Gibbons)	05012	American Society of Limnologists & Oceanographers (1961)	018me
The trap thief	04827	American Society of Plant Physiologists/Botanical Society of America, Physiological Section (1960)	002me
Tuna	04828	American Society of Zoologists, Division of Comparative Endocrinology (1962)	279me to 281me 286me
Verse mosselen (Fresh mussels)	04829	American Society of Zoologists, Division of Comparative Endocrinology & Comparative Physiology (1961)	271me
Where the land meets the sea	05008	American Society of Zoologists, Division of Comparative Physiology (1962)	270me

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AAAS (1961)	211me	Arbeidsutvalget for Utvikling av Pelagisk Enbatstral, Bergen (1962)	276me 296me
AAAS, Alaska Division (1961)	088me	Association of British Zoologists (1962)	188me
AAAS, Pacific Division (1961)	044me	Atomic Energy Commission/AIBS (1961)	092me
ACC (1961)	020me	Botanical Society of the British Isles (1962)	247me
ACC (1962)	144me	British Association for the Advancement of Science (1961)	084me
AIBS (1961)	034me 089me	British Ecological Society (1962)	324me
AIBS/ASLO (1962)	230me		
AIBS, Shark Research Panel (1961)	090me		
ASAB (1961)	046me		
ASAB (1962)	289me 311me		
ASLO (1961)	076me		
ASLO/AIBS (1962)	334me		
ASLO, Pacific Section (1961)	126me		

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CAB, Animal Nutrition (1961)	093me	EIFAC (1962)	083me
CCTA (1962)	182me 360me	Eastern Pacific Oceanic Conference (1962)	300me
CCTA/CSA (1962)	219me	European Association for Animal Production (1962)	358me
CCTA/IUCN (1961)	047me	European Federation of Chemical Engineering (1962)	167me 258me
CCTA/IUCN (1962)	183me	European Society of Haematology (1961)	075me
CIBA Foundation (1962)	180me		
CIESMM (1962)	305me	FAO (1959)	078me
CPCERMPs (1961)	094me	FAO (1961)	003me 030me 049me
Canada, Ministry of Agriculture (1961)	081me		050me to 052me
Canadian Federation of Biological Societies (1961)	095me		097me to 100me
Canadian Institute of Food Technology (1961)	021me	FAO (1962)	253me 327me 228me
Caribbean Council (1961)	125me		140me 290me 330me
Central Treaty Organization, Scientific Council (1962)	274me		244me 229me 263me
Centre National de la Recherche Scientifique (1961)	096me		232me 340me 301me
Challenger Society (1961)	006me		315me 361me 346me
	161me		318me 307me 308me
Challenger Society (1962)	215me		350me 349me 363me
	328me		364me
Challenger Society/Representatives from Marine Laboratories (1962)	216me 284me 362me	FAO (1963)	352me 238me
Chamber of Commerce of Ancona (1961)	048me	FAO/ECLA (1962)	291me
Comitato Nazionale per l'Energia Nucleare (Italia) (1961)	011me	FAO/ICES/ICNAF (1962)	297me
Committee of International Congresses on Metallic Corrosion (1961)	086me	FAO/WHO (1961)	187me
Conference of European Comparative Endocrinologists (1962)	295me	FAO/WHO (1962)	316me
Conferences on Science & World Affairs (1961)	201me	FAO/WHO/IAEA (1961)	053me
Consejo Superior de Investigaciones Científicas Sección de Petrografía Sedimentaria (1961)	242me	FAO/WHO/IAEA (1962)	337me
		FBA (UK) (1961)	101me
Delft. Technological University/Netherlands Universities Foundation for International Cooperation/WHO/OECD (1962-1963)	344me	FBA (UK) (1962)	139me 312me
Department of Marine Science of College of William & Mary/Virginia Fisheries Laboratory (1961)	012me	FID (1962)	339me
		Fisheries Council of Canada (1961)	005me
ECAFE (1961)	033me 159me	Fisheries Council of Canada (1962)	191me
ECE (1961)	022me 023me		
EEC (1962)	359me	GCFI (1961)	131me
		GCFI (1962)	236me 348me
		GFCM (1961)	128me
		GLFC (1961)	186me
		GLFC (1962)	226me
		GLFC, Research Division (1962)	220me
		Geological Society of America <i>et al.</i> (1961)	248me
		Germany. Federal Republic. Bundesministerium für Ernährung, Landwirtschaft & Forsten (1962)	246me
		Ghana Science Association (1962)	082me
		Great Lakes Research Division (1961)	054me
		Gulf States Marine Fisheries Commission (1961)	055me

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Gulf States Marine Fisheries Commission (1962)	164me	317me	
Hungarian Academy of Sciences/ Hungarian Society of Hydrology (1961)		056me	
IAEA (1961)	004me	102me	057me
	210me		
IAEA (1962)	243me	287me	298me
	235me	351me	
IAEA/FAO/WHO (1961)		158me	
IAEA/Joint Commission on Applied Radioactivity (1961)		322me	
IAL (1962)		138me	267me
I-ATTC (1962)		282me	171me
ICC (1962)			356me
ICES (1962)	233me	254me	266me
	168me		
ICNAF (1961)			058me
ICNAF (1962)	170me	192me	145me
ICNAF, Standing Committee on Research & Statistics (1962)		146me	
ICSU (1961)			059me
ICSU (1962)		325me	343me
ICSU/SCOR (1961)		103me	104me
IFIPS (1962)			172me
IHB (1962)		151me	256me
IMCO (1961)			178me
IMCO (1962)	212me	217me	251me
	147me	326me	162me
	320me		
INPFC (1961)		073me	127me
INPFC (1962)	252me	357me	306me
	269me		
INPFC, Committee on Biology & Research (1961)		173me	
INPFC, U.S. Section (1961)		015me	
IOF (1961)			105me
IPFC (1962)	184me	341me	345me
IPFC, Executive Committee (1961)			106me
IPHC (1962)			190me
ISA (1962)			342me
ISO/TC 38, Sub-Committee on Fishing Nets (1962)		283me	
IUBS (1961)			060me
IUCN (1961)			077me
IUCN (1962)			196me
IUGG (1962)			264me
IUGG (1963)			240me
IWC (1961)			061me
IWC (1962)			169me
Institute of Biology (U.K.) (1961)			032me
Institute of Economics (1962)			347me
Institute of Marine Engineers (1962)			255me
Institute of Mathematical Statistics (1961)			272me
Institute of Navigation (U.K.) (1961)			107me
Instrument Society of America (1960)			205me
Intergovernmental Oceanographic Commission (1962)			294me
International Agricultural Center (1961)			195me
International Association of Game, Fish & Conservation Commissioners (1962)			148me
International Association of Microbiological Societies (1962)			181me
International Conference on Water Pollution Research (1962)			231me
International Conference on Radiocarbon Dating (1962)			355me
International Congress of Food Science & Technology (1962)			149me
International Congress on the History of Science (1962)			150me
International Congress of Physiological Sciences (1962)			313me
International Congress of Zoology (1963)			239me
International Federation of National Societies of Parasitologists (provisional) (1962)			259me
International Fisheries Fair (1962)			222me
International Fisheries Show (1962)			285me
International Institute of Refrigeration (1961)			024me
International Joint Commission U.S.-Canada (1961)			062me
International Phycological Society (1961)			108me
International Phycological Society (1962)			333me
International Rayon & Synthetic Fibres Committee (1962)			165me
International Ship Structural Congress (1961)			160me
International Union of Biochemistry (1961)			067me
International Union for Social Service (1961)			063me

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Kansas. State University (1962)	265me	Office International des Epizooties (O.I.E.), Commission permanente de l'O.I.E. pour l'Étude des Maladies des Poissons (1962)	303me
Karolinska Institutet (1961)	025me	Office of Naval Research (1961)	080me
Lalor Foundation (1962)	143me	Office of Naval Research/Information Systems Branch/Armour Research Foundation (1962)	225me
Malaya & Singapore, Fisheries Department (1960)	043me	Office of Naval Research/Netherlands Ship Model Basin (1960)	207me
Marine Biological Association of India (1961)	069me	Operations Research Society of America (1961)	114me
Marine Biological Association of India (1962)	213me	Operations Research Society of America (1962)	153me 268me
Marine Biological Association of U.K. (1962)	141me 142me	Oyster Growers & Dealers/National Shellfisheries (1962)	193me
Marine Biological Laboratory, Woods Hole (1961)	109me	PCIFC (1962)	224me
NAS/NRC (US) (1961)	029me 064me	Pacific Fisheries Technologists (1961)	016me
NATO (1962)	278me	Pacific Marine Fisheries Commission (1962)	302me
NATO Advanced Study Institutes Programme (1961)	110me	Pacific Tuna Conference (1961)	009me 019me
NPFSC (1962)	189me 214me 175me 310me 309me	Pacific Tuna Conference (1962)	299me
National Academy of Sciences (1961)	204me	Paraguay, Ministerio de Agricultura y Canaderia (1961)	115me
National Academy of Sciences/NRC (1961)	197me	Phycological Society of America (1960)	085me
National Fisheries Institute (1962)	152me	Royal Meteorological Society/Challenger Society (1962)	336me
National Fisheries Institute (1963)	237me	Royal Society of London (1962)	166me
National Fisheries Institute, Area III (1961)	134me	SCAR/ICSU (1962)	293me
National Science Foundation/Office of Naval Research (1961)	070me 071me 072me	SCOR (1962)	223me
National Shrimp Congress (1961)	135me	SCOR/ICSU (1962)	323me 338me
Netherlands Universities Foundation for International Cooperation, Technological University of Delft/OEEC/WHO (1961-1962)	013me	SCOR/ICSU/IOC (1962)	329me 332me 331me
N.Y. Academy of Sciences (1961)	079me	SPC (1962)	273me 234me 319me
Northwest Pacific Fisheries Commission (Japan-USSR) (1962)	277me	Scottish Field Studies Association (1961)	037me to 039me
OEEC (1961)	008me	Scottish Marine Biological Association (1962)	136me 137me
OEEC/EPA (1962)	179me	Scripps Institution of Oceanography (1961)	065me
Oak Ridge Institute of Nuclear Studies (1961)	111me	Shrimp Association of the Americas (1961)	031me 132me
Oceanographic Institute, Florida University (1961)	208me 209me	Shrimp Association of the Americas (1962)	227me
Oceanographic Society of Japan (1961)	112me 113me	Society of European Nematologists (1961)	203me

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Society of Naval Architects & Marine Engineers (1961)	249me		
South American Congress of Zoology (1962)	261me		
Southeastern Fisheries Association (1961)	133me		
Stazione Zoologica di Napoli (1961)	163me		
Sweden (1961)	074me		
Sweden. Fisheries Division (1961)	116me		
Symposium on the Physiology & Ultra Structure of <i>Hydra</i> & of Some Coelenterates (1961)	241me		
Systematics Association/Challenger Society (1961)	154me		
Thunderbird Enterprises Ltd. (1961)	117me		
UN (1961)	040me	177me	001me
UNESCO (1961)	198me	245me	
	010me	118me	119me
	124me	123me	200me
UNESCO (1962)	221me		
UNESCO, International Advisory Committee on Bibliography, Documentation & Terminology (1961)	120me		
UNESCO, Science Cooperation Office for Southeast Asia (1962)	218me	321me	
UNESCO/WMO (1961)	066me		
USFWS, Bureau of Commercial Fisheries (1962)	365me		
USPHS (1962)	156me		
USPHS, Taft Sanitary Engineering Center (1961)	007me	068me	
U.S. Department of the Interior (1961)	129me		
U.S. Office of Naval Research (1962)	335me		
University of British Columbia, Department of University Extension (1962)	194me		
University of North Carolina (1961)	041me		
University of Padua, Italy (1961)	130me		
University of Rochester (1961)	155me		
WHO (1961)	353me		
WHO/OEED/Association Française pour l'Étude des Eaux/Abwassertechnische Vereinigung (GFR)/Foreningen for Vattenhygien (Sweden)/Water Pollution Control Federation (USA)/Institute of Sewage Purification/Institution of Public Health Engineers/River Board Association/Scottish River Purification Board Association (UK) (1962)	157me		
WMO (1961)	036me	042me	
WMO (1962)	275me	174me	
WMO. Commission for Synoptic Meteorology (1962)	250me		
Washington. State University (1962)	260me		
Water Pollution Control Federation (1961)	176me		
Water Pollution Control Federation (1962)	262me		
West Pacific Fisheries Commission (1962)	292me		
Wildlife Disease Association, U.S. (1962)	288me		
World Conference on National Parks (1962)	354me		
Zoological Society of India (1962)	314me		
Zoological Society of London (1961)	121me		
Zoological Society of London/ASAB (1961)	122me		
Sponsor unknown (1961)	028me	027me	
SECOND AND THIRD AUTHORS			
Aaronson, S. (1958)	03862		
Abe, N. (1960)	01870		
Abe, T. (1959)	00549	02374	
Abramov, A. (1960)	00447		
Abyzov, S. S. (1960)	06143		
Acher, R. (1961)	06385		
Acosta, J. T. (1960)	03555		
Adrian, B. (1969)	04515		
Ahlers, W. (1960)	06641	06642	
Ahmad, M. (1958)	04420		
Ahmad, M. (n.d.)	05654		
Aikawa, H. (1959)	00565		
Aikawa, H. (1960)	00166		
Akamatsu, H. (1959)	01111		
Akano, T. (1960)	06842		

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Akiba, M. (1959)	01447	Barron, N. (1960)	00986
Akiba, M. (1960)	01454	Barrymore, S. (1960)	06131
Akiba, Y. (1959)	00569	Barrymore, S. D. (1960)	06132
Aleksandriuk, S. P. (1960)	05433	Bas, C. (1959)	04748
	05434	Baylor, E. R. (1960)	00970
Aleman, M. (1960)	03555	Beck, R. A. (1959)	02933
Aleskovskii, V. B. (1958)	03168	Beeler, R. (1960)	00783
Alfred, E. R. (1958)	05731	Behrens, M. (1960)	02165
Allen, D. M. (1960)	06261	Bein, S. J. (n.d. 1959?)	03977
Allen, K. (1959)	02964	Bell, C. G. (1959)	02009
Allen, R. D. (1959)	02978	Belsare, D. K. (1959)	00629
Allison, E. C. (1960)	01229	Belyanina, T. N. (1960)	05101
Amano, K. (1958)	00357	Bender, M. (1959)	03923
Amidjaja, R. (1960)	00143	Bennett, M. F. (1959)	02995
Amiot, L. W. (1960)	01700	Ben-Tuvia, A. (1960)	03224
Ando, K. (1960)	04725	Ben-Yami, M. (1960)	02884
Antal, P. (1959)	03172	Bergmann, F. (1959)	03012
Aoto, T. (1960)	03561	Berkeley, C. (1960)	00833
Applegate, V. C. (1960)	01994	Berman, W. H. (1960)	06589
Apte, A. S. (1958)	04126	Bern, H. A. (1960)	01331
Arfin, S. M. (1960)	06680	Berner, L., Jr. (1959)	02382
Arias, E. (1959)	04747	Bernhard, M. (1960)	06596
Aron, W. (1958)	02265	Best, E. A. (1960)	06691
Aron, W. (1960)	06695	Beyers, R. J. (1960)	01629
Arons, A. B. (1960)	02398 05922	Bialecki, A. (1960)	04996
Arseniev, V. S. (1959)	04524	Bichiceanu, M. (1959)	00395
Asaoka, O. (1960)	01921	Biczók, F. (1959)	06200
Austin, A. P. (1960)	02638	Bierschenk, W. H. (1960)	06617
Austin, K. H. (1960)	06314	Bircă, I. (1959)	00763
Awapara, J. (1959)	02964	Birkhoff, C. (1960)	01049 01344
Awapara, J. (1960)	05603	Birstein, J. A. (1960)	04339
Ax, R. (1960)	01663	Bischoff, A. I. (1960)	03986
Ayers, J. C. (1959)	06150	Bitners, I. (1960)	01098
Ayers, J. C. (1960)	00581	Bjork, C. R. (1960)	02283
		Blaxter, J. H. S. (1960)	00992 04920
Bachmann, R. W. (1959)	03008	Blaxter, J. H. S. (1961)	03859
Backiel, T. (1960)	02031	Blum, W. P. (1959)	01094
Backus, R. H. (1960)	04421	Boalch, D. H. (1960)	04293
Bader, R. G. (1960)	06278	Böhlke, J. E. (1960)	06705
Badgley, F. I. (1958)	06488	Boichev, D. (1960)	03458
Bailey, J. E. (1960)	06435	Bookhout, C. G. (1960)	01627 05604
Bakhtina, M. E. (1959)	04176		05605
Bakkala, R. G. (1960)	06177	Bookhout, C. G. (1961)	03801
Băleanu, N. (1960)	05954	Booolootian, R. A. (1960)	04074
Balica, B. R. (1960)	05079	Booth, R. A. (1960)	06697
Bang, F. B. (1960)	05610	Borgese, T. A. (1959)	02977
Banks, R. B. (1959)	02009	Borgeson, D. P. (1960)	02204
Banner, A. H. (1960)	05293	Boschi, E. E. (1959)	01250
Banner, D. M. (1960)	01459 01460	Bourgeois, F. (1960)	00444
Baravik, E. A. (1959)	04200	Bowen, V. T. (1959)	05345
Barber, F. G. (1960)	06070	Bowerman, F. R. (1960)	00208
Bardach, J. E. (1960)	01268	Bowler, E. (1960)	03318
Barnes, M. (1959)	06238	Brancato, F. P. (1959)	04902
Barnoud, R. (1959)	01682 05203	Brandon, A. M. (1959)	01682
Barquist, R. F. (1958)	06502	Brater, E. F. (1959)	05164
Barrett, M. J. (1958)	04499	Brattstrom (1960)	06698

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Bravo-Hollis, M. (1959)	05988	Childers, W. F. (1959)	02135
Brawn, V. M. (1960)	06647	Chivers, D. D. (1960)	01707
Brehmer, M. L. (1960)	01625	Chonaire, E. N. (n.d. 1959?)	02485
Brett, W. J. (1959)	02995 02996	Chowdhury, D. R. (1959)	04393
Brett, W. J. (1960)	06125	Christmas, J. Y., Jr. (1960)	03272
Brineck, P. (1959)	01781	Chung-Yen, T. (1960)	02608
Brock, V. E. (1960)	03345	Churchill, D. M. (1959)	02418
Brody, A. L. (1960)	06662	Chyu, I. (1959)	03446
Brohm, H. H. (1960)	05558	Ciszewski, P. (1959)	01407
Brooks, C. E. P. (1960)	01221 01295	Claff, C. L. (1959)	03020
Brooks, N. H. (1960)	00208	Clark, M. E. (1960)	03158
Brown, F. A., Jr. (1959)	02990 02991	Clark, R. B. (1959)	01014
	02993	Clark, R. B. (1960)	03157 06366
Brown, J. S. (1960)	02773	Cleverdon, R. C. (1960)	00580
Brown, W. D. (1959)	04550	Clunies-Ross, C. W. (1960)	01455
Brown, W. W. (1961)	04681	Cobb, M. C. (1958)	02018
Brucker, W. (1960)	03563	Cole, C. V. (1958)	04126
Buckley, J. (1960)	02786	Collette, B. B. (1959)	03908
Budinger, T. F. (1958)	06492	Collias, E. E. (1958)	06481
Budker, P. (1958)	03361	Collins, H. H. (1960)	03602
Bullis, H. R. Jr. (1960)	02127	Collins, J. (1960)	05056
Bunim, L. (1959)	02988	Collins, R. A. (1958)	03273
Burling, R. W. (1960)	06767	Collins, R. A. (1959)	05306
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Byers, T. F. (1959)	02981	Conrad, S. M. (1960)	00257
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Cairns, E. J. (1959)	05301	Cooper, E. L. (1960)	06426
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Graham, J. J. (1958)	04838	Heezen, B. C. (1960)	01954
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Hobbs, H. H., Jr. (1959)	01219	Ito, M. (1959)	02588
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Lee, O. S. (1958)	04102	Mansueti, R. J. (1960)	03846
Leedale, G. F. (1961)	03871	Manter, H. W. (1957)	00529
Le Floch, J. (1960)	01955	Manville, R. H. (1960)	02786
Lejuez, R. (1960)	05003	Manzer, J. I. (1959)	03701
Leloup, J. (1960)	04647	Marble, S. W. (1960)	01759
Leloup-Hatey, J. (1959)	03037	Markianovich, E. M. (1958)	04197
Lemercier, A. (1960)	02623	Marr, J. C. (1960)	06407
Lenoir, J. (1959)	03043	Marsh, L. (1959)	02421
Leonte-Teodorescu, R. (1959)	00762	Martin, A. W. (1958)	06508
Leray, C. (1960)	01513	Marvan, P. (1961)	06731
Leslie, P. H. (1960)	02387	Masaki, T. (1959)	01438
Le Theule (1961)	04892	Masuda, T. (1960)	04724
Levinthal, C. (1960)	00850	Masuyama, T. (1960)	06807
Levitova, E. N. (1959)	04174	Mathisen, O. A. (1959)	04549
Lewin, R. A. (1960)	05545	Matsudaira, Y. (1960)	01907
Lewin, R. A. (1961)	03802	Matsumoto, C. (1959)	03695
Liebenaler, J. B. (1960)	00367	Matsumoto, J. (1960)	01917
Lifton, S. E. (1960)	05211	Matsuura, F. (1960)	01896 01900
Lind, E. M. (1960)	06753		01918 06821
Lipton, S. (1959)	02391 02758		
Lisitsyn, A. P. (1957)	04984	Maury, R. (1960)	04536
Lisitsyn, A. P. (Program for Scientific Translations, Jerusalem, Transl.) (1960)	04985	May, B. Z. (1958)	03526
Listin, J. (1960)	01066	McAlister, W. B. (1959)	05704
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Livingstone, R., Jr. (1959)	02198	McCauley, J. E. (1959)	01144
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Lloyd, K. O. (n.d. 1959?)	02493	McGary, J. W. (1959)	02345
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Lovett, L. L. (1960)	05722	McKee, J. S. McKinley (1959)	04615
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Mercier, E. R. (1960)	04308	Morawa, F. F. W. (1961)	05418
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Merican, A. B. O. (1960)	00142	Mori, K. (1960)	00079
Merrell, D. J. (1959)	06360	Morimoto, Y. (1958)	02171
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Merrington, M. (1960)	03197	Morrill, P. A. (1960)	00364
Messersmith, J. D. (1960)	06390	Morton, J. E. (1960)	02061
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Metz, C. B. (1960)	02164	Motegi, S. (1960)	04730
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Mihai, M. (1959)	05522	Mozzi, C. (1958)	04761
Mihara, S. (1960)	02359	Mrak, E. M. (1959)	00699
Mikami, T. (1960)	01856	Mueller, D. (1960)	01657
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	00375	Mullins, T. (1959)	06291
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Miller, D. J. (1960)	03983	Murata, K. (1960)	00073
Miller, J. J. (1960)	06107	Murray, J. (1960)	01536
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Mogensen, J. A. (1959)	01678	Neprochnova, A. P. (1959)	04260
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Obarrio, J. L. (1960)	06264	Pengra, R. M. (1960)	00851
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	00715 00739	Rutkiewicz, S. (1959)	01407
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	<i>Gadus merlangus</i>		03143		<i>Gambusia</i>	01204	02246	04932
	<i>Gadus morhua</i>	00310	00317		GOODEIDAE			06534
		00361	00605		JENYNSIIDAE			06534
		01157	01162		<i>Lebistes</i>	01202	01274	01332
		01726	02055			02206	03827	04090
		02883	03039			05168	05210	05272
		03419	03428		<i>Mollienesis</i>			01492
		04742	05215		<i>Nothobranchius</i>			00370
		05861	05877		<i>Oryzias</i>	00823	01442	05219
		05966	06041			05939		05599
		06526			POECILIIDAE	01426		06534
	<i>Gadus poutassou</i>	00454	06199			06851	289me	
	<i>Gadus sp.</i>	01536	02637		<i>Procatopus</i>			05378
		04751	05761		<i>Rivulus</i>			00839
	<i>Gaidropsarus</i>		04195		<i>Simpsonichthys</i>			04970
	<i>Lota</i>	04948	05543		<i>Xiphophorus</i>	01202	01266	01332
	<i>Melanogrammus</i>		01135			01426	01535	05157
		01162	01960			06536		06131
		02661	03065		1,59	<i>Aphredoderus</i>		03377
		05531	05559		<i>Columbia</i>			03377
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	<i>Merluccius gayi</i>		01182	1,61	BERYCIFORMES	05177		05178
	<i>Merluccius merluccius</i>	00421	06385		<i>Monocentris</i>	01435		01436
	<i>Merluccius sp.</i>	02286	02637	1,62	<i>Daramattus</i>			03264
	<i>Molva</i>		02745		<i>Zeus</i>			02213
	MORIDAE		04982	1,64	<i>Sphyræna</i>	01586	02372	02782
	<i>Phycis</i>		05761			03528	05394	05407
	<i>Pollachius</i>	05544	06041	1,65	<i>Allanetta</i>			00712
	<i>Raniceps</i>	01021	05761		ATHERINIDAE			02003
	<i>Theragra</i>	02404	05630		<i>Basilichthys</i>			04290
		05937	05938		<i>Menidia</i>			06698
1,49	<i>Trachyrincus</i>		02603		<i>Mugil</i>	00059	00422	01331
1,50	<i>Eucalia</i>	00189	03350			02122	02206	02224
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		01653	03238	1,66	<i>Eleutheronema</i>			05472
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	<i>Ambassis</i>			00712	<i>Leiostomus</i>	03493	06279	06321
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	<i>Amphistichus</i>		06131	06132		03084	03187	03243 05412
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	<i>Lepidotriglia</i>	02128	02129	02373		228me	282me	299me
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1,80	<i>Auxis</i>	00722	01533	04082			00949	01131
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		04480	05451			<i>Hippoglossus sp.</i>		02556
	<i>Germo</i>	01456	01854	01855		<i>Lepidopsetta</i>		04568
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	00498 00500 00501	00533		02228	02231	02235	02236

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02396	02403	02409	02415	04085	04088	04093	04132
02518	to	02521	02536	04137	04166	04192	04199
02539	02543	02544	02546	04284	04288	04294	to
02553	02560	02562	02563	04299	04301	04303	to
02564	02567	to	02572	04307	04315	04321	04327
02576	02590	02595	02597	04328	04385	04404	04411
02598	02633	02667	02675	to	04415	04417	04419
02677	02678	02679	02702	04420	04445	04446	04447
02703	02708	02712	02724	04451	to	04457	04473
02749	02761	02770	02780	04483	04484	04485	04488
02787	02800	to	02818	04490	04491	04497	04498
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03095	03102	03107	03117	04943	04944	04980	04981
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03184	03189	03201	03207	05250	05266	05413	05422
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03278	03280	03283	03290	05507	05516	05530	05535
03291	03293	03305	to	05536	05538	05541	05549
03308	03314	03328	03329	05565	05568	to	05571
03345	03347	03352	to	05582	05585	05589	05590
03355	03357	03358	03361	05611	05617	05644	to
03366	03371	03372	03374	05647	05649	05650	05653
03378	03381	03392	03394	to	05658	05660	05663
03397	03405	03410	03411	05683	05687	05700	05711
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03443	03453	03455	03456	to	05760	05768	05776
03457	03459	03460	03461	05779	to	05790	05793
03463	03465	03466	03468	05795	to	05798	05803
03470	to	03473	03476	05807	05815	05821	05827
03478	to	03483	03495	to	05835	05837	05838
03498	03499	03511	03525	05839	05841	to	05844
03534	03536	03570	03579	05846	05847	05848	05852
03582	03583	03625	03633	05854	05855	05860	05863
03638	03639	03640	03643	05865	05866	05867	05872
03650	03651	03662	03666	05873	05878	05881	05883
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03688	03712	03740	03741	05895	05897	to	05900
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03778	03784	03787	03838	05985	05994	06003	06007
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06685	06729	06740	06741	04086	04091	04099	04127
06753	06754	06763	06767	04128	04133	04204	04211
06768	06772	to	06776	04216	04223	04247	04263
06802	06857		005me	04317	04330	04337	04339
015me	016me		030me	04349	04350	04394	04398
043me	045me		047me	04405	04408	04423	04435
to	050me		052me	04540	04576	04589	04590
054me	055me		058me	04592	04593	04600	04619
062me	063me		074me	04623	04641	04649	04662
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226me	234me		238me	05575	05577	05578	05580
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				06172	06196	06200	06255
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				06601	06602	06603	06730
				06731	06735	06742	06758
				06769	06805	06817	06854
				008me	012me		032me
				037me	038me		039me
				103me	124me		163me
				260me	266me		321me

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00059	00101	00105	00127
00150	to	00158	00203
00251	00271	00272	00275
00289	00309	00334	00389
00440	00442	00522	00534
00543	00544	00545	00564
00576	00589	00626	00693
00698	00714	00761	00782
00788	00836	00855	00856
00858	00977	00980	01014
01022	01029	01031	01033
01144	01169	01170	01173
01182	01209	01394	01403
01407	01412	01464	01480
01501	01515	01516	01525

2,01 BRANCHIOPODA 05131

2,02	Artemia	00999	01668	02795
		02962	05604	
	Branchinella			04479
	Streptocephalus			05244

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	<i>Caenestheriella</i>				00734	<i>Lamippina</i>			03806
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2,05	<i>Alona</i>				06355	<i>Lernaea</i>	00601	02241	02352
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	<i>Bythotrephes</i>				02794	LERNAEOPODIDAE			00736
	CHYDORIDAE				02284	<i>Lernanthropus</i>			00735
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		04947	05368	05958	06045	<i>Limnocalanus</i>	02217	03501	03502
		06223				<i>Macrocylops</i>			01333
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		00970	00971	01800	01821	<i>Microstella</i>			02020
		02752	03828	04208	04266	<i>Mixodiaptomus</i>			03081
		05269	05336	216me		<i>Moriopsis</i>			03880
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2,09	COPEPODA	00123	00388	00404		<i>Platychelipus</i>			284me
		00646	01958	02314	03232	<i>Pseudocyonus</i>			00735
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		04064	04954				06792	284me	06447
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	<i>Elaphoidella</i>			04962			284me		
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00564	00576	00589	00626		037me	038me	039me	
00693	00698	00714	00761		047me	103me	124me	
00782	00788	00836	00855		163me	260me	321me	
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| 259me | 263me | 264me | | | 00554 | 00556 | 00560 | 00561 |
| 266me | to | 270me | | | 00593 | 00596 | 00719 | 00959 |
| 312me | to | 317me | | | 01107 | 01108 | 01115 | 01116 |
| 319me | to | 353me | | | 01166 | 01471 | 01472 | 01620 |
| 356me | 365me | | | | 01750 | 01919 | 01998 | 02254 |
| 1.4 <i>General phenomena</i> | | 01450 | 02011 | | 02284 | 02289 | 02394 | 02401 |
| | 02014 | 02016 | 02270 | 04869 | 02618 | 02620 | 02636 | 02649 |
| | 05772 | 06370 | 06822 | | 02650 | 02651 | 02682 | 02721 |
| 1.5 <i>General apparatus</i> | | 00591 | 00775 | | 02861 | 02887 | 02948 | 03049 |
| | 01045 | 01728 | 01850 | 01968 | 03079 | 03200 | 03285 | 03297 |
| | 02198 | 02585 | 02886 | 03286 | | | | |

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 06745 06849 006me
 151me 242me 256me
 328me

2.4 *Physics of sea and fresh waters* 00068

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 173me 254me 323me
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2.5 *Chemistry of sea and fresh waters*

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 262me 287me 298me
 323me 344me 349me
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2.6 *Structure, dynamics and circulation*

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2.7 Waves, tides and water level 00001

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2.8 Ice

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 06155 06158 06192 06203
 06382 06644 06801 to
 06804 215me

2.9 Coastal oceanography and limnology

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				06520	124me	284me

3. PLANKTON

3.1 General

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06042	06163	06465 06480
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3.4 *Nannoplankton* 05097
 3.5 *Productivity* 00202 00579 00685
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4. BENTHOS

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 039me 342me 362me

4.2 *Zoobenthos—systematics and development* 00017 00040
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4.3 Zoobenthos—Distribution and ecology

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4.4 Zoobenthos—Physiology and behaviour

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5. FISHING (See also 6.8)

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	02259	02264	02283
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	04297	04315	04325
	04417	04419	04420
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	04941	05215	05538
	05650	05653	05656
	05663	05687	05745
	05747	05758	05759
	06045	06072	06088
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	06282	06288	06356
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	01064	01065	01067
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01090	01093	to	01097
01101	01199	01353	01355
01356	01357	01444	to
01447	01453	01454	01658
01847	01848	01864	to
01867	01882	to	01887
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02166	to	02169	02249
02250	02340	02342	02472
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06572	06578	06635	06657
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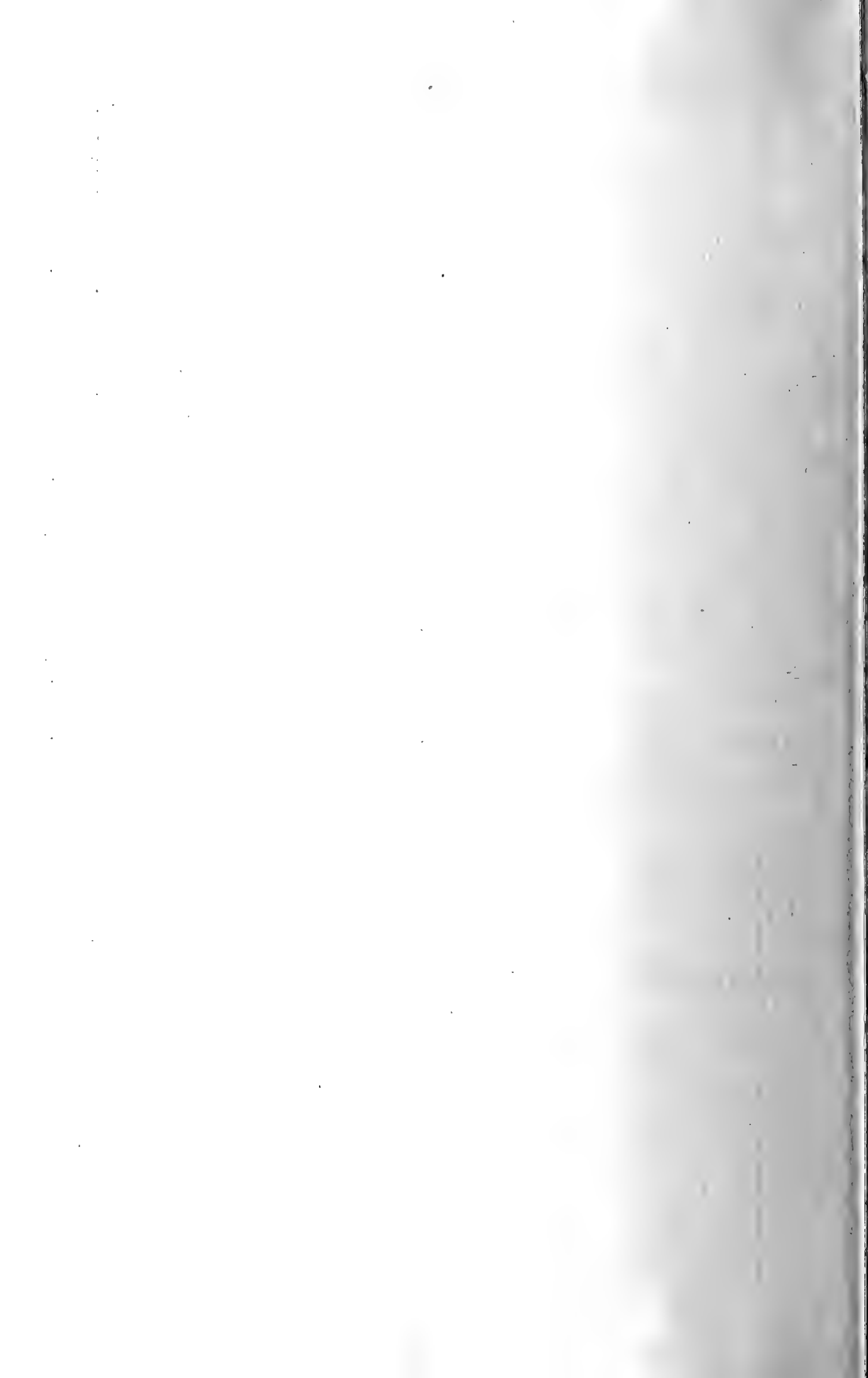
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59-3912	Ar 61-04458	59-6631	Ci 61-03867
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59-4394	Co 61-01530	59-6672	Ad 61-036ad
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